

2008 - 2009



UNDERGRADUATE CALENDAR



UNIVERSITÉ
Concordia
UNIVERSITY

www.concordia.ca

UNDERGRADUATE CALENDAR

CONCORDIA UNIVERSITY'S MISSION STATEMENT

Concordia is an urban university which is responsive to the needs of a diverse student population as well as to the bilingual and multicultural environment in which it resides. It is a welcoming community where values of equality, non-discrimination and tolerance of diversity are appreciated and actively promoted. Furthermore, Concordia is committed to responsible and innovative leadership in fulfilling the mission of universities to develop and disseminate knowledge and values and to act as a social critic. The University seeks to achieve this end by offering its students inclusive and accessible academic programs which stress a broad-based, interdisciplinary approach to learning, by fostering an environment of academic and pedagogical freedom, as well as by a dedication to superior teaching supported by the best possible research, scholarship, creative activity and service to society. Through these means, the University prepares its graduates, at all levels, to live as informed and responsibly critical citizens who are committed to learning and to the spirit of enquiry.

2008 | 2009



The Calendar is an official University document defining academic programs and the regulations which pertain to them. It is accurate as of its printing date. The University Senate reserves the right to modify the academic programs and regulations at its discretion after the publication date of the Calendar. In addition, the University reserves the right to modify the published scale of tuition and other student fees at any time before the beginning of an academic term. The most current information is available from the Office of the Registrar and, for graduate programs, the School of Graduate Studies. Moreover, the information contained in the Calendar or any other University document related to academic programs and regulations is subject to verification and correction by the Office of the Registrar and the School of Graduate Studies.

- Not all courses listed in this Calendar are offered this year. Students are advised to consult the Undergraduate Class Schedule for a timetable of courses offered.
- On November 15, 2000, the Faculty of Commerce and Administration at Concordia University became the John Molson School of Business.
- For information concerning graduate programs, contact the School of Graduate Studies — 514-848-2424 ext. 3800. The office is located at 2145 Mackay Street near the Hall Building.



Concordia University is a totally smoke free environment as of January 1, 1993. Offenders may be fined under provincial legislation.

PRICE: \$7.00 plus postage and handling

Copies of the Calendar are available at Concordia bookstores.

TABLE OF CONTENTS

	Section	Page
ACADEMIC CALENDAR	11	13
ADMINISTRATION	12	19
ADMISSION REGULATIONS	13	25
MATURE ENTRY	14	33
TUITION AND FEES	15	37
ACADEMIC INFORMATION: DEFINITIONS AND REGULATIONS	16	45
ACADEMIC INTEGRITY AND THE ACADEMIC CODE OF CONDUCT	17.10	66
POLICY ON THE ESTABLISHMENT OF TRIBUNAL HEARING POOLS	17.20	74
RIGHTS AND RESPONSIBILITIES	17.30	76
OMBUDS OFFICE	17.40	89
STUDENT LIFE AND STUDENT SERVICES	18	91
Student Life and Student Services	18.1	92
Dean of Students	18.2	92
Advocacy and Support Services	18.3	93
Counselling and Development	18.4	95
Health Services	18.5	97
Financial Aid and Awards	18.6	99
Recreation and Athletics	18.7	104
INTERNATIONAL STUDENTS	19	105
STUDENT AND ALUMNI ASSOCIATIONS	20	113
SCHOOL OF EXTENDED LEARNING	21	117
Student Transition Centre	21.1	118
Strategic Transition and Enhanced Preparation for University Programs (StepUp)	21.2	118
Centre for Continuing Education	21.3	119
TEACHER TRAINING AND TEACHER CERTIFICATION	23	125
INSTITUTE FOR CO-OPERATIVE EDUCATION	24	129
CONVOCATION MEDALS AND PRIZES	25	139

FACULTY OF ARTS AND SCIENCE	31	143
Arts and Science.....	31.001	144
Programs and Admission Requirements	31.002	145
Degree Requirements	31.003	148
General Education.....	31.004	153
Adult Education (see §31.090.2)		
Applied Human Sciences.....	31.010	154
Biology.....	31.030	163
Canadian Irish Studies (see §31.170)		
Chemistry and Biochemistry.....	31.050	171
Classics, Modern Languages and Linguistics	31.060	179
Communication Studies.....	31.070	199
Economics	31.080	210
Education.....	31.090	218
English.....	31.100	232
English as a Second Language (see §31.090.1)		
Études françaises	31.110	246
Exercise Science	31.120	262
Geography, Planning and Environment.....	31.130	270
History	31.160	282
Interdisciplinary Elective Groups (see §31.170)		
Interdisciplinary Studies.....	31.170	292
Interdisciplinary Studies in Sexuality (see §31.170)		
Journalism	31.180	297
Leisure Sciences (see §31.010)		
Mathematics and Statistics.....	31.200	302
Philosophy.....	31.220	313
Physics	31.230	320
Political Science	31.240	327
Psychology	31.250	338
Religion.....	31.270	347
Sociology and Anthropology	31.310	358
Southern Asia Studies (see §31.270)		
Teaching of English as a Second Language (see §31.090.1)		
Theological Studies	31.330	370
Urban Studies (see §31.130.1)		
Women's Studies (see §31.560)		

Computer Science (Minor).....	31.400	375
Colleges, Institutes and Schools	31.500	375
Co-operative Education	31.515	375
Liberal Arts College	31.520	376
Loyola International College.....	31.535	380
School of Community and Public Affairs.....	31.540	383
Science College.....	31.550	390
Simone de Beauvoir Institute and Women's Studies.....	31.560	393
<hr/>		
JOHN MOLSON SCHOOL OF BUSINESS	61	399
John Molson School of Business.....	61.10	400
Admission Requirements.....	61.20	400
Undergraduate Degree Programs	61.21	401
The Credit Core	61.22	401
General Information.....	61.30	403
John Molson School of Business Courses	61.35	404
Accountancy	61.40	407
Decision Sciences and Management Information Systems	61.50	410
Economics	61.60	415
Finance.....	61.70	416
International Business	61.80	420
Management.....	61.90	422
Marketing.....	61.100	426
Administration.....	61.120	429
Program Options for Non-Business Students.....	61.140	430
Computer Science	61.150	431
Special Certificate Programs	61.160	431
Special Programs in Accountancy	61.170	431
<hr/>		
FACULTY OF ENGINEERING AND COMPUTER SCIENCE	71	435
Faculty of Engineering and Computer Science	71.10	436
BEng.....	71.20	440
Department of Electrical and Computer Engineering	71.30	444
Department of Mechanical and Industrial Engineering.....	71.40	449
Department of Building, Civil and Environmental Engineering	71.50	453
Engineering Course Descriptions	71.60	457

Department of Computer Science and Software Engineering.....	71.70	483
Computation Arts and Computer Science	71.80	496
Mathematics and Statistics and Computer Applications.....	71.85	497
General Studies Unit	71.90	498
Concordia Institute for Information Systems Engineering	71.100	499
FACULTY OF FINE ARTS	81	501
Programs and Admission Requirements	81.10	502
Degree Requirements	81.20	504
Fine Arts Courses of Faculty-Wide Interest	81.30	506
Art Education	81.40	507
Art History.....	81.50	511
Mel Hoppenheim School of Cinema	81.60	517
Interdisciplinary Studies in Sexuality		528
Contemporary Dance	81.70	529
Creative Arts Therapies	81.80	532
Design and Computation Arts.....	81.90	533
Music	81.100	542
Studio Arts	81.110	553
Studio Art		553
Ceramics		554
Fibres.....		554
Intermedia/Cyberarts		555
Painting and Drawing		555
Photography		555
Print Media		556
Sculpture		556
Theatre	81.120	569
FACULTY	100	579
EQUIVALENTS INDEX	200	609
AWARDS, PRIZES AND SCHOLARSHIPS.....	300	629
GRADUATE PROGRAMS	400	639
INDEX.....	500	645

CONCORDIA UNIVERSITY IS ONE OF the largest urban universities in Canada. It has two campuses — one in downtown Montreal (Sir George Williams), the other in a residential setting in the city's west end (Loyola).

The University has long promoted accessibility, innovation and an interdisciplinary approach to learning as its fundamental characteristics. As an urban university, it is also responsive to Montreal's bilingual and multicultural environment, and has a strong tradition in part-time education.

Approximately 88% of Concordia's students are Canadians and 12% are International students. Approximately 17% of Concordia students list French as their mother tongue.

More than 5,700 students a year are granted degrees at the graduate and undergraduate levels. Over 1,200 students earn scholarships and fellowships.

Concordia employs over 2,000 full-time and part-time faculty, 40 professional librarians, 1,400 permanent administrative and support personnel, and 2,900 contract personnel. Among the part-time instructors is a large number of professionals drawn from the artistic community and the business world.

Within the 2006-07 fiscal year, the value of grants and contracts allotted to Concordia's researchers climbed to over 29.2 million dollars. In accordance with Concordia's continued growth and presence on the international research scene, the number of Canada Research Chair holders has risen to 20. Additionally, there are presently 38 Concordia Research Chairs, 8 other chairs, and 29 Research Centres and Institutes. Concordia's research interests can be grouped into four prominent areas, namely: Manufacturing and Transportation Systems; Learning, Human Development and Human Environment; Information Technologies and their Basic Foundations; and Health and Life Sciences. Areas of particular focus within the four groups are composites, nanotechnologies, aviation management, building envelope performance, telecommunications, artificial intelligence, multimedia and digital technology, mathematics and statistics, behavioural neurobiology, computational chemistry, bioinformatics and genomics.

Concordia recognizes the increasing importance of international academic relations and it operates Concordia International under the Vice-Provost, International Relations to encourage, monitor and co-ordinate the University's international activities. During the past decade, Concordia professors have travelled to more than 100 countries, and Concordia continues to play host to visiting students and professors from every corner of the globe. Formal linkages have been established with universities in 29 countries on five continents. Researchers are active on every continent.

The University holds the distinction of being the first in the western world to establish a joint doctoral program with a university in The People's Republic of China, and Concordia is still active in that country. Formal exchange programs have been established with eight of the PRC's leading academic institutions. As a consequence, Concordia professors now travel to China to teach PhD courses in Civil Engineering, Computer Science, and a growing array of other disciplines in the arts, sciences and engineering.

Concordia is the first English-language University in Quebec with a Co-operative Education program, a process by which academic study terms are alternated with work terms in business and industry to give students practical, on-the-job experience. The areas of work experience included in the Concordia program are Accountancy, Actuarial Mathematics, Actuarial Mathematics/Finance, Applied Mathematics, Art History, Biochemistry, Building Engineering, Chemistry, Civil Engineering, Computation Arts, Computer Engineering, Computer Science, Economics, Electrical Engineering, Finance, French Translation, Human Resource Management, Industrial Engineering, Management Information Systems (MIS), Marketing, Mechanical Engineering, Pure and Applied Mathematics, Software Engineering, and Statistics.

Established in 1974 with the merger of Loyola College and Sir George Williams University, Concordia offers over 500 graduate and undergraduate programs in four Faculties (Arts and Science, John Molson School of Business, Engineering and Computer Science, and Fine Arts) and the School of Graduate Studies. At the undergraduate level, the University offers BA, BAdmin, BComm, BCompSc, BEd, BEng, BFA, and BSc degrees, as well as Certificate programs.

At the graduate level, the University awards MA, MSc, MTM, MBA, MASc, MApCompSc, MCompSc, MIM, MEng, and MFA degrees in the following fields of study: Applied Linguistics, Art Education, Art History, Biology, Business Administration (professional, executive, and international aviation options), Chemistry, Child Study, Computer Science, Creative Art Therapies, Economics, Education Studies, Educational Technology, Engineering (aerospace, building, civil, electrical, and mechanical), English,

Film Studies, History, Human Systems Intervention, Investment Management, Judaic Studies, Mathematics, Media Studies, Philosophy, Psychology, Public Policy and Public Administration (with an option in geography), Religion, Sociology, Social and Cultural Anthropology, Studio Arts, Teaching of Mathematics, Theological Studies, and Traductologie.

Programs leading to the PhD degree are offered in Administration, Art Education, Art History, Biology, Building Engineering, Chemistry, Civil Engineering, Communication, Computer Science, Economics, Educational Technology, Electrical and Computer Engineering, History, Humanities, Mathematics, Mechanical Engineering, Psychology, Religion, and in Special Individualized programs.

The following graduate certificate programs are offered: *Anglais/français en langue et techniques de localisation*, Building Engineering, Community Organizational Development, Computer Engineering, Design of Application Specific Circuits, Digital Technologies in Design Art Practice, E-Business, Environmental Engineering, Event Management and Fundraising, Management Accounting, Management of Health Care Organizations, Mechanical Engineering, Micro-devices and Fabrication Processes, Service Engineering and Network Management, Software Systems for Industrial Engineering, Software Systems for Mechanical and Aerospace Engineering, Telecommunications, and User Interface Design for Software Systems.

The University also offers graduate diploma programs in Administration, Adult Education, Advanced Music Performance Studies, Chartered Accountancy, Communication Studies, Community Economic Development, Computer Science, Economic Policy, Environmental Impact Assessment, Instructional Technology, Investment Management, Journalism, Sport Administration, and Translation.

Enrolment as of Fall 2007 was:

Full-time undergraduate	17,001	Full-time graduate	3,508
Part-time undergraduate	7,938	Part-time graduate	1,263
Independent students	2,770		

In addition to the programs described in this Calendar and in the School of Graduate Studies Calendar, the University offers a wide range of summer courses and programs on both campuses. A separate publication listing summer offerings is published annually.

Concordia is on the Internet with a website that allows visitors to learn all about the University. Options allow the user to access academic information, go on a tour of the libraries, locate campus activities, find information for students and about administrative services, search through the directory and sign the guestbook. Concordia's website address is <http://www.concordia.ca>.

Service Centre

Located in the J.W. McConnell Library Building, the Birks Student Service Centre is a one-stop service centre that provides integrated front-line Admissions, Student Accounts as well as all registrarial services. In addition, many self-service applications are available to students on the student portal at www.myconcordia.ca.

Campus Tours

Enrolment Services offers Campus Tours services. These include not only information on academic programs and university activities but also self-guided, general, and customized visits of both campuses.

Libraries

Concordia Libraries offers a wealth of information, both in print and in electronic formats. CLUES, the library catalogue, provides access to collections of books, periodicals, electronic resources, audio-visual material, and more. Students can also choose from an extensive list of online databases and e-journals to find references to, as well as full-text versions of, articles, reports, and statistical data in a variety of subject areas. Most electronic services are available both in the libraries and from home.

Computers equipped with productivity software are available to students conducting academic research through databases, CLUES, and the Internet. In addition, laptop computers can be borrowed for a two-hour loan period or students can bring their own and connect to the wireless network.

Students can obtain research assistance from librarians in finding information for assignments by enquiring in person, by telephone, by e-mail, or through online chat. Students may also consult subject librarians for one-on-one help with their research.

General library workshops are offered each term and can help students develop and improve research skills needed to succeed in using the library effectively.

Undergraduate students may borrow books for a two-week period. Audio-visual materials may have a shorter loan period. The interlibrary loans service enables students to obtain material which is not available at Concordia from other libraries at the local, national, or international level.

The R. Howard Webster Library is located on the downtown Sir George Williams Campus and the Georges P. Vanier Library is located on the Loyola Campus.

Additional information is available at <http://library.concordia.ca>.

Instructional and Information Technology Services (IITS)

IITS provides infrastructural services in the areas of computing, voice and data communications, systems, instructional technology and media development. The department administers hardware, software, information, consulting, and professional support to faculty, students, staff, and researchers in using instructional technology in their programs/projects/curricula on both campuses.

Developed by IITS, the student/faculty portal is an online Web tool that allows students to get an e-mail account, register for courses, and view personalized class schedules, billing and account information, student records, current grades, examination schedules and information regarding loans and bursaries. New features are continually being added.

IITS provides classroom technology support for all aspects of the University's high-tech classrooms which are equipped with presentation technology equipment in consoles and wireless networking. Students and faculty may reserve these equipped rooms and any additional equipment through the IITS equipment depots. Training and assistance are available from the depot staff.

The Concordia wireless network service is designed to provide access into the Concordia network from classrooms, both libraries (Vanier and Webster), and public areas on both campuses. Common uses for the wireless network include academic research, viewing course websites, and casual computing (such as checking e-mails). There are over 150 access points set up throughout both campuses.

Information about Internet and networking services, as well as a virtual tour of the computer labs, can be found on the IITS website at <http://iits.concordia.ca>.

Art Galleries

The Leonard and Bina Ellen Art Gallery is located in the J.W. McConnell Building. One of the major small museums in Canada, the Gallery features a year-round program of exhibitions of Canadian art in all visual media. Most presentations are organized by the Gallery's own staff, but some shows are brought in from other art institutions across Canada.

The Gallery has a permanent collection of Canadian art with a special emphasis on modern and contemporary work. The collection includes painting, sculpture, works on paper, mixed media and photography. Selections from the collection are frequently included in the Gallery's exhibitions. Illustrated bilingual publications accompany the majority of the exhibitions.

The V.A.V. Gallery, devoted to work by undergraduate students in the visual arts programs of the Faculty of Fine Arts, is located on the main floor of the Visual Arts Building at the corner of René-Lévesque Boulevard and Crescent Street. In the Bourget Building on Mountain Street, exhibitions of work by Fine Arts graduate students are presented in the gallery on the main floor.

Theatre, Music and Arts Studios

The Faculty of Fine Arts operates several performing arts facilities on the Loyola Campus, including a state-of-the-art concert hall, seating 600, and the Joseph P. Cazalet Studio, a flexible teaching facility serving theatre students. Dramatic productions on the Sir George Williams Campus are staged in the D.B. Clarke Theatre, a well equipped 380-seat facility in the Henry F. Hall Building.

Specialized studios and workshops for undergraduate and graduate students in the visual arts are located in the Visual Arts Building and the MF Annex.

Music students use ensemble rooms and practice studios in the Refectory Building on the Loyola Campus. Performances are given in the large ensemble rooms and in the Oscar Peterson Concert Hall. Dance and theatre students use studios in the TJ Annex, located on the Loyola Campus.

Film

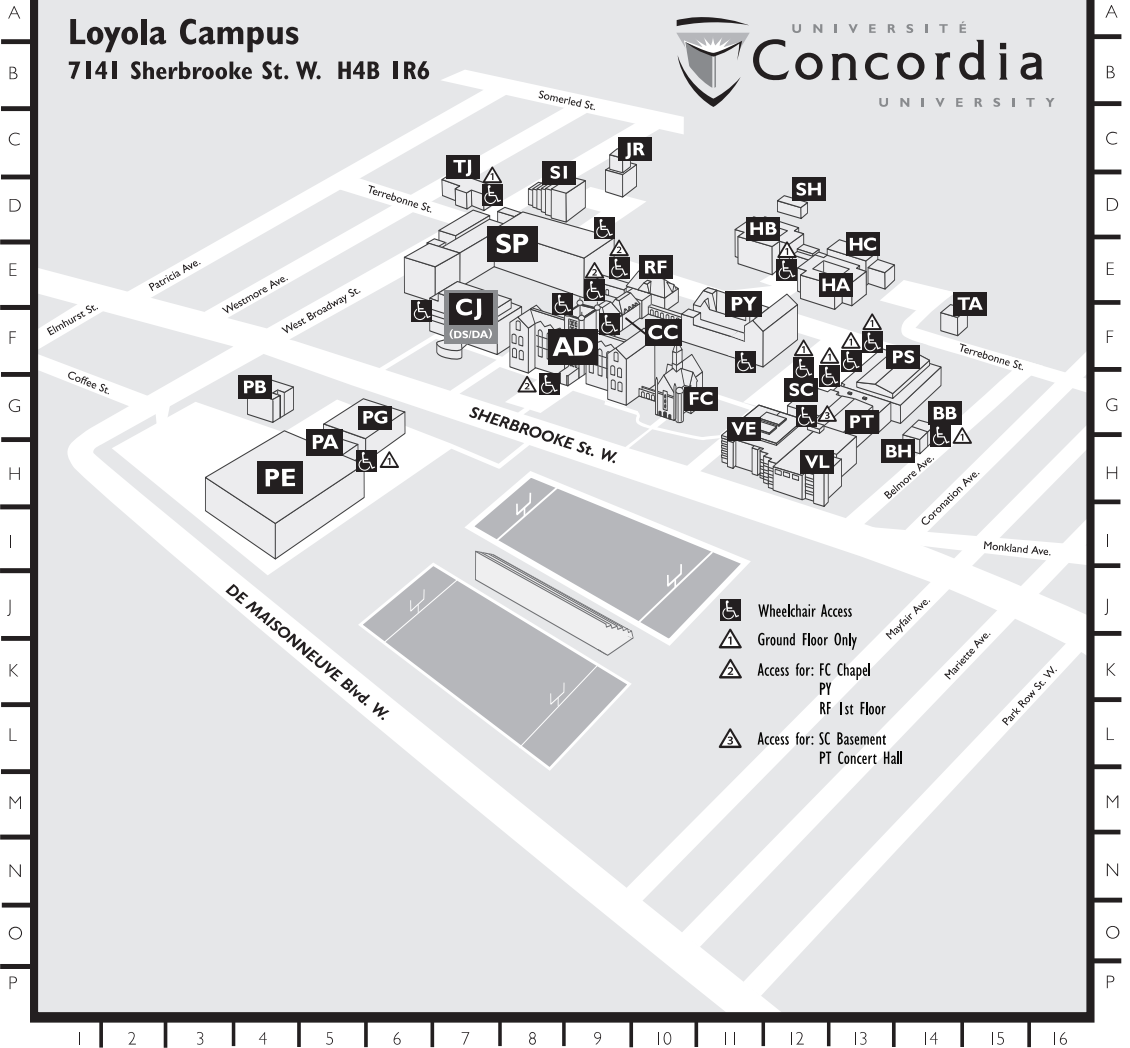
Concordia University houses an impressive collection of films of historic and cultural value.

Athletic Facilities

The University offers extensive programs for participation in intramural and intercollegiate sports. Facilities include several full-sized playing fields and a fully equipped physical education centre on the Loyola Campus. The centre includes a gymnasium and an ice arena, as well as training and sports medicine areas, an activities room and a weight-training room.

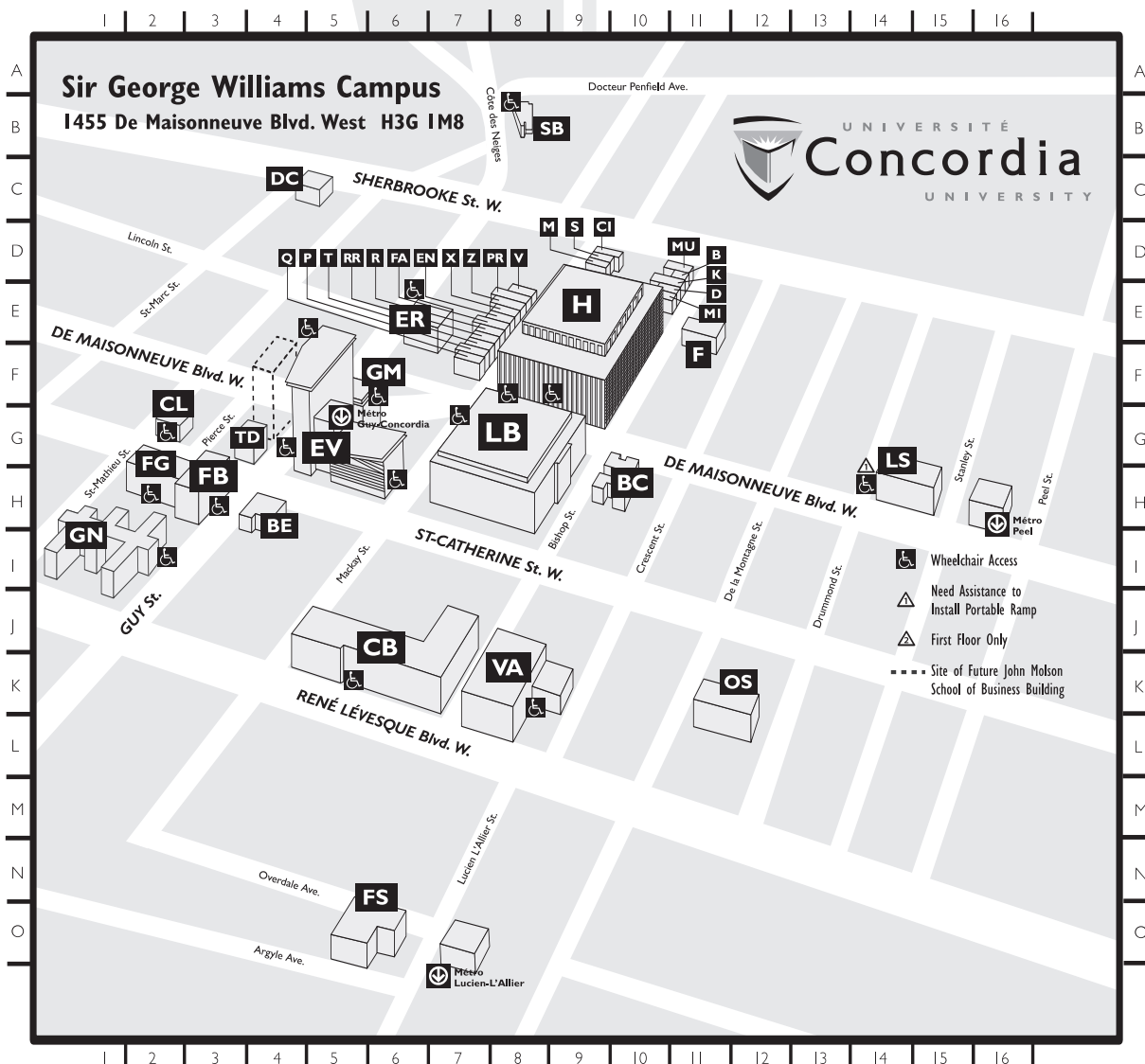


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



AD	Administration Building / 7141 Sherbrooke W.	F 9
BB	3502 Belmore	G 14
BH	3500 Belmore	G 14
CC	Central Building	F 9
CJ	(DS/DA) Comm. Studies & Journalism Building	F 7
FC	Loyola Chapel / F.C. Smith Auditorium	G 10
HA	Hingston Hall A	E 12
HB	Hingston Hall B	E 11
HC	Hingston Hall C	E 13
JR	Jesuit Residence / 7141 Sherbrooke W.	C 9
PA	Athletics Complex / 7200 Sherbrooke W.	H 5
PB	7200 Sherbrooke W.	G 4
PE	7200 Sherbrooke W.	H 4
PG	Gym / 7200 Sherbrooke W.	G 5

PS	Physical Services	G 14
PT	Oscar Peterson Concert Hall	G 13
PY	Psychology	F 11
RF	Refectory	E 10
SC	Campus Centre	G 12
SH	Solar House	D 12
SI	St. Ignatius / 4455 West Broadway	D 8
SP	Richard J. Renaud Science Complex / 7141 Sherbrooke W.	E 8
TA	7079 Terrebonne	F 14
TJ	7315 Terrebonne	D 7
VE	Vanier Extension	H 11
VL	Vanier Library	H 12



B	2160 Bishop.....	D 11
BC	Bishop Court / 1463 Bishop.....	H 10
BE	1257 Guy.....	H 4
CB	1425 René-Lévesque W.	K 6
CI	2149 Mackay.....	D 10
CL	1665 St. Catherine W.	G 2
D	2140 Bishop.....	E 11
DC	2305 St. Marc (Daycare).....	C 4
EN	2070 Mackay.....	E 8
ER	2155 Guy.....	E 6
EV	Engineering, Computer Science and Visual Arts Complex / 1515 St. Catherine W.	G 5
F	2085 Bishop.....	E 11
FA	2060 Mackay.....	E 8
FB	Faubourg Tower / 1250 Guy.....	H 3
FB	1600 St. Catherine W. (Continuing Education).....	H 3
FG	1608 St. Catherine W.	H 2
FS	1438 Overdale.....	O 6
GM	1550 de Maisonneuve W.	F 5
GN	1185 St. Mathieu.....	I 1
H	Henry F. Hall Building / 1455 De Maisonneuve W.	E 9

K	2150 Bishop.....	D 11
LB	J.W. McConnell Building / Library Building 1400 De Maisonneuve W.	G 8
LS	2015 Drummond.....	H 14
M	2135 Mackay.....	D 9
MI	2130 Bishop.....	E 11
MU	2170 Bishop.....	D 11
OS	1191 de la Montagne.....	K 11
P	2020 Mackay.....	F 7
PR	2100 Mackay.....	E 8
Q	2010 Mackay.....	F 7
R	2050 Mackay.....	E 8
RR	2040 Mackay.....	F 7
S	2145 Mackay.....	D 9
SB	1590 Docteur Penfield.....	B 8
T	2030 Mackay.....	F 7
TD	1410 Guy.....	G 4
V	2110 Mackay.....	E 8
VA	Visual Arts Building / 1395 René-Lévesque W.	K 8
X	2080 Mackay.....	E 8
Z	2090 Mackay.....	E 8

gender neutral degree nomenclature

In February 1992, Concordia University adopted a policy on degree nomenclature that seeks to provide students with the opportunity to graduate with gender neutral degree titles. This policy stipulates that students are entitled to receive their degrees in either the traditional or new degree nomenclature. The new names for degrees are: Baccalaureate, Magisteriate, and Doctorate. The traditional nomenclature is: Bachelor, Master, and Doctor.

As of June 1994, students may choose to graduate with degree titles that are gender neutral and refer to the diplomas themselves. Graduates who have previously been awarded a Concordia degree will be able to request that their degree be re-issued in the new nomenclature.

concordia university



academic calendar

section 11



11 ACADEMIC CALENDAR

The Academic Calendar is subject to change. Updated information will be available from the Birks Student Service Centre. For dates pertaining to registration and non-standard Summer Terms, please consult the 2008-09 Undergraduate Class Schedule or the Birks Student Service Centre. For financial deadlines see §15.

Concordia University recognizes and respects the religious beliefs, observances and obligations of all faiths. For the information of instructors planning assignment deadlines, class tests, etc., and for persons scheduling meetings, the dates of Holy Days of major religions are available at the Birks Student Service Centre.

Deadlines falling on weekends* or holidays will be extended to the next working day.

**Except for academic withdrawal deadlines.*

Regular Session 2008-09 and Summer Session 2008

2008

MARCH	Saturday, March 1	Last day for application to undergraduate programs — Full-time Regular Session 2008-09.
	Friday, March 7	University Writing Test.
	Thursday, March 13	Last day for academic withdrawal from two-term and winter-term courses.
	Friday, March 21	University closed (see April 10, 2008).
	Saturday, March 22	University closed (see April 10, 2008).
	Monday, March 24	University closed (see April 11, 2008).
APRIL	Wednesday, April 2	Last day for instructor-scheduled tests or examinations.
	Wednesday, April 9	Last day of classes — Regular Session 2007-08.
	Thursday, April 10	Make-up day for classes scheduled on March 21 and 22 — Instructors must contact Scheduling Office to book a classroom.
	Friday, April 11	Make-up day for classes scheduled on March 24 — Instructors must contact Scheduling Office to book a classroom.
	Saturday, April 12	Examinations begin.
	Tuesday, April 29	Examinations end.
	Wednesday, April 30	Two-term and first-term Summer Session begins.
MAY	Wednesday, May 7	Last day to add two-term and first-term Summer Session courses.
	Wednesday, May 7	Deadline for withdrawal with tuition refund from two-term and first-term Summer Session courses.
	Friday, May 9	University Writing Test.
	Thursday, May 15	Last day to apply for late completion of courses ending in April 2008.
	Thursday, May 15	Last day to apply for DEF (Deferred) or MED (Medical) notation for courses ending in April 2008.

	Monday, May 19	Victoria Day — University closed.
	Wednesday, May 28	Last day for academic withdrawal from first-term Summer Session courses.
	Friday, May 30	Last day for submission of late-completion work for courses ending in April 2008 (application deadline May 15).
JUNE	T.B.A.	Spring Convocations.
	Sunday, June 15	Last day to apply for supplemental examinations for courses taken during the Regular Session 2007-08.
	Sunday, June 15	Last day to apply for re-evaluation of courses ending in April 2008.
	Monday, June 16	Last day of classes — First-term Summer Session.
	Tuesday, June 17	Mid-term break for two-term Summer Session begins.
	Tuesday, June 17	Examinations begin — First-term Summer Session finals.
	Monday, June 23	Examinations end — First-term Summer Session finals.
	Monday, June 23	Mid-term break for two-term Summer Session ends.
	Tuesday, June 24	Fête Nationale — University closed.
	Wednesday, June 25	Classes begin — Second-term Summer Session.
	Monday, June 30	Special Six-Week Summer Session begins.
JULY	Tuesday, July 1	Canada Day — University closed.
	Wednesday, July 2	Last day to add second-term Summer Session courses.
	Wednesday, July 2	Deadline for withdrawal with tuition refund from second-term Summer Session courses.
	Tuesday, July 15	Last day to apply for degrees, diplomas and certificates for Fall 2008 graduation.
	Thursday, July 24	Last day for academic withdrawal from second-term Summer Session courses.
AUGUST	Monday, August 11	Special Six-Week Summer Session ends.
	Tuesday, August 12	Last day of classes for two-term and second-term Summer Session.
	Wednesday, August 13	Make-up day for two-term Summer Session for those classes scheduled on Tuesday only (not Tue/Thur combination) — Instructors must contact Scheduling Office to book a classroom.
	Thursday, August 14	Examinations begin — Two-term and second-term Summer Session finals.
	Wednesday, August 20	Examinations end — Two-term and second-term Summer Session finals.
	Thursday, August 21	Replacement and supplemental examinations begin — Regular Session 2007-08.
	Wednesday, August 27	Replacement and supplemental examinations end — Regular Session 2007-08.
	Sunday, August 31	Last day to apply for DEF (Deferred) or MED (Medical) notation for courses taken during the Summer Session 2008.

SEPTEMBER	Monday, September 1	Last day to apply for late completion of courses taken during the Summer Session 2008.
	Monday, September 1	Labour Day — University closed.
	Tuesday, September 2	Classes begin — Day and Evening Regular Session.
	Monday, September 15	Last day for submission of late-completion work for Summer Session 2008 courses (application deadline September 1).
	Tuesday, September 16	Last day to apply for supplemental examinations for courses taken during the Summer Session 2008.
	Tuesday, September 16	Last day to add two-term and fall-term courses.
	Tuesday, September 16	Deadline for withdrawal with tuition refund from two-term and fall-term courses.
OCTOBER	Wednesday, October 1	Last day to apply for re-evaluation of courses taken during the Summer Session 2008.
	Friday, October 3	University Writing Test.
	Saturday, October 4	Replacement and supplemental examinations for Summer Session 2008 courses.
	Monday, October 13	Thanksgiving Day — University closed (see December 2, 2008).
NOVEMBER	T.B.A.	Fall Convocations.
	Saturday, November 1	Last day for application to undergraduate programs — Winter Term 2009.
	Tuesday, November 4	Last day for academic withdrawal from fall-term courses.
	Sunday, November 16	University Writing Test.
	Monday, November 24	Last day for instructor-scheduled tests or examinations.
DECEMBER	Monday, December 1	Last day of classes — Fall Term.
	Tuesday, December 2	Make-up day for classes scheduled on Monday, October 13 — Instructors must contact Scheduling Office to book a classroom.
	Thursday, December 4	Examinations begin.
	Sunday, December 21	Examinations end.
<hr/>		
2009		
JANUARY	Monday, January 5	Classes begin — Day and Evening Winter Term.
	Friday, January 9	University Writing Test.
	Thursday, January 15	Last day to apply for degrees, diplomas and certificates for Spring 2009 graduation.
	Thursday, January 15	Last day to apply for DEF (Deferred) or MED (Medical) notation for courses ending in December 2008.
	Monday, January 19	Last day to add winter-term courses.
	Monday, January 19	Deadline for withdrawal with tuition refund from winter-term courses.
FEBRUARY	Sunday, February 1	Last day to apply for supplemental examinations for courses ending in December 2008 (graduating students only).
	Sunday, February 1	Last day to apply for re-evaluation of courses ending in December 2008.

	Sunday, February 1	Last day to apply for late completion of courses ending in December 2008.
	Sunday, February 15	Last day for submission of late-completion work for courses ending in December 2008 (application deadline February 1).
	Monday, February 23	Mid-term break begins.
	Monday, February 23	Replacement examinations begin.
	Monday, February 23	Supplemental examinations begin for courses ending in December 2008 (graduating students only).
	Thursday, February 26	Replacement and supplemental examinations end.
	Friday, February 27	President's Holiday — University closed.
MARCH	Sunday, March 1	Mid-term break ends.
	Sunday, March 1	Last day for application to undergraduate programs — Full-time Regular Session 2009-10.
	Friday, March 6	University Writing Test.
	Monday, March 16	Last day for academic withdrawal from two-term and winter-term courses.
APRIL	Thursday, April 2	Last day for instructor-scheduled tests or examinations.
	Thursday, April 9	Last day of classes — Regular Session 2008-09.
	Friday, April 10	University closed (see April 14, 2009).
	Saturday, April 11	University closed (see April 14, 2009).
	Monday, April 13	University closed.
	Tuesday, April 14	Make-up day for classes scheduled on April 10 and 11 — Instructors must contact Scheduling Office to book a classroom.
	Friday, April 17	Examinations begin.
MAY	Saturday, May 2	Examinations end.
	Friday, May 8	University Writing Test.
	Friday, May 15	Last day to apply for late completion of courses ending in April 2009.
	Friday, May 15	Last day to apply for DEF (Deferred) or MED (Medical) notation for courses ending in April 2009.
	Saturday, May 30	Last day for submission of late-completion work for courses ending in April 2009 (application deadline May 15).
JUNE	T.B.A.	Spring Convocations.
	Monday, June 15	Last day to apply for supplemental examinations for courses taken during the Regular Session 2008-09.
	Monday, June 15	Last day to apply for re-evaluation of courses ending in April 2009.

administration

section 12



12 ADMINISTRATION

The following information was updated as of October 1, 2007.

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Bernard Gamoy	Frances Shaver
David Graham	Megan Sheppard
Arpi Hamalian	Peter Stoett
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Shandell Jack	William Zerges
Muhammad Jamal	

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admission regulations

13.1 ADMISSION TO CONCORDIA UNIVERSITY

13.2 DEFINITIONS

13.3 ADMISSION REQUIREMENTS

- 13.3.1** Applicants from Quebec Institutions
- 13.3.2** Applicants from Other Canadian Provinces
- 13.3.3** Transfers from Other Universities
- 13.3.4** Transfers from Other Post-Secondary Institutions
- 13.3.5** Pro-Tanto Credits and Exemptions
- 13.3.6** Applicants from Outside Canada
- 13.3.7** Former Concordia Students

13.4 LANGUAGE PROFICIENCY

13.5 APPLYING FOR ADMISSION

- 13.5.1** Application Fee
- 13.5.2** Deadlines
- 13.5.3** International Applicants

13.6 SPECIAL ADMISSIONS

- 13.6.1** Mature Students
- 13.6.2** Visiting Students
- 13.6.3** Independent Students
- 13.6.4** Senior Students

13.7 REQUIRED DOCUMENTS

- 13.7.1** All Applicants
- 13.7.2** Permanent Code

13.8 SELECTION PROCESS AND NOTIFICATION

- 13.8.1** Conditional Admission
- 13.8.2** Confirmation Fee
- 13.8.3** Registration

section 13



13

ADMISSION REGULATIONS

Associate Vice-President, Enrolment and Student Services
ROGER CÔTÉ

University Registrar
LINDA HEALEY

Associate Registrar and Director, Enrolment Analysis/Process Control
TERRY TOO

Assistant Registrar
ASSUNTA FARGNOLI

Director, Admission Services and Recruitment
SOPHIE FONTAINE

Director, Communication and Services to Students
DAVID GOBBY

Director, Government Reporting, Statistics and External Liaison
BRUCE MACKENZIE

Admissions Advisors
MELANIE HUME
MAUREEN SCULLY

Admissions Interviewers
ANNE-MARIE FERRARI
IRENE GRIGOROPOULOS

Admissions Officer
CYNTHIA HEDRICH

Location

Sir George Williams Campus
Birks Student Service Centre
J.W. McConnell Building, Room: LB 185
514-848-2424 ext. 2668

Fax: 514-848-2621
Web: <http://registrar.concordia.ca>
University Website: <http://www.concordia.ca>

13.1 ADMISSION TO CONCORDIA UNIVERSITY

The University gives fair consideration to all applicants and informs them of its decisions and the basis for such decisions within a reasonable period of time. Concordia has a long tradition of service to adult and part-time students. Basic information on admission requirements and procedures is included in this Calendar. More detailed information can be found in the Admission Guide and at the Concordia website.

In keeping with general principles accepted by Quebec universities, admission to Concordia University is open to qualified applicants in the program of their choice. In programs with limited enrolments, not all qualified applicants can be accepted. In such cases, the University accepts those with the strongest qualifications and demonstrable potential. Qualified applicants not admitted to their preferred program are automatically considered for their second-choice program.

Applicants are encouraged to submit an application through the Concordia website:

<http://www.concordia.ca>.

There is a single processing centre to which all applications and supporting documents should be mailed:

Concordia University
Admissions Application Centre
P.O. Box 2900
Montreal, Quebec
H3G 2S2

13.2 DEFINITIONS

The Academic Year

The Academic Year begins with a Summer Session (May to August) followed by a Regular Session (September to April). The Summer Session includes all courses offered between the beginning of May and the end of August. The Regular Session is divided into a Fall Term (September-December) and a Winter Term (January-April), each 15 weeks long. Terms include an examination period, during which any final examination must be held. The Academic Calendar §11 lists precise dates for the beginning and end of classes and examination periods.

Exemption

A student may be exempted from a Concordia course based on previous study or a challenge exam. An exemption from a course has no credit value towards a degree. Exemptions from required courses may be granted in cases where students have already covered the work at any institution

with an appropriate level of performance. Any such courses may be replaced with courses chosen in consultation with their advisors. Students who complete a course for which an exemption has been granted will not be permitted to retain the credits unless they have been granted prior approval from the Faculty and/or departmental advisor.

Extended Credit Program Students

Students registered in an extended program, normally requiring 30 credits in addition to the regular requirements, designed for students entering from secondary institutions outside Quebec. (See relevant Faculty section).

Independent Students

Students not seeking a degree or Certificate.

Mature Students

Undergraduate students who do not meet regular academic admission requirements and have been admitted on the basis of their age, experience, and potential.

Pro-Tanto Credits

Pro-tanto credits are credits for courses taken at another institution (or in another Concordia program) which may be transferred towards a Concordia degree. Students who repeat a course will not be permitted to retain the credits unless they have been granted prior approval from the Faculty and/or departmental advisor.

Residence Requirement

The minimum number of credits which must be taken at Concordia University to obtain a degree or Certificate awarded by the University.

Undergraduate Students

Students registered in an undergraduate degree or Certificate program, whether on a full-time or part-time basis. See §16.1.2 for a definition of full-time and part-time study.

Visiting Students

Undergraduate students from other universities who have written approval from their home university to take courses at Concordia University, or students currently registered in certain Certificate programs sponsored by external associations (e.g. programs related to the John Molson School of Business).

13.3 ADMISSION REQUIREMENTS

13.3.1 *Applicants from* *Quebec Institutions*

Quebec applicants must have successfully completed a two-year pre-university program in a Cegep and qualify for a Diploma of Collegial Studies (DEC) or the equivalent. Applicants who have completed a three-year professional program in a Cegep or have obtained a French or International Baccalaureate are also eligible for consideration.

Cegep records of applicants must include the successfully completed prerequisites of the Concordia degree program for which they are applying. These programs and admission requirements "profiles" are listed in:

- The programs and admission requirements listed under each Faculty section,
- The Admission Guide,
- The Concordia website.

Students admitted to a particular program at the University and who subsequently wish to change to another program may have to complete specific prerequisites in addition to their regular program requirements.

13.3.2 *Applicants from Other* *Canadian Provinces*

Graduates of secondary schools in Canadian provinces and territories other than Quebec are considered for admission to the Extended Credit Program (ECP) at Concordia. The ECP requires completion of 30 credits in addition to the regular requirements. The duration of a degree program is normally four years. The BEng degree, the BA, Early Childhood and Elementary Education Program, the BEd, TESL and the BFA, Art Education will generally require five years of full-time study to complete.

To be considered for admission, students must have a minimum overall average of 65% in academic subjects taken in the final year of secondary school, and should have senior high school course credits appropriate to the degree program for which they are applying. Higher averages may be required for admission to certain programs in which the demand for places by qualified applicants exceeds the number of places available.

Students completing the following levels of education may be considered for entry to the Extended Credit Program.

Ontario

Applicants from Ontario must present the Secondary School Diploma with six Grade 12 U or M. All applicants must have completed appropriate Grade 12, U or M academic subjects. They must also have Grade 12 U English or French (if graduated from a French school). The minimum average for eligibility to the University is 65%, but may be higher for certain programs/faculties.

Other Provinces

Applicants from all other provinces and territories must have successfully completed Grade 12.

13.3.3

Transfers from Other Universities

Each transfer application is considered on its merits. The number of transfer credits granted depends on the character, quality, and quantity of the work completed at the accredited institution. In allowing transfer credits, some special conditions apply:

1. Students will not be given credit for courses taken in another university during the same academic term in which they have registered for courses at Concordia University, unless special permission has been obtained in advance from this University. The Office of the Registrar should be contacted for information on the correct procedure.
2. To earn an undergraduate degree, students must take a minimum of 45 credits at Concordia University. These should be the last 45 credits. The BEng, the BA (Early Childhood and Elementary Education), the BEd (TESL), and the BFA (Specialization in Art Education) require 60 credits at Concordia.
3. Students transferring to Concordia after having failed to achieve a satisfactory record at any university must take a minimum of 60 additional credits at Concordia.
4. At least 50% of the degree credits for Honours, Specializations, Majors, Options, or Minors must be taken at Concordia. Individual Faculties determine the precise proportion.
5. Students who already have an undergraduate degree may undertake a second undergraduate degree, subject to the conditions below. (Before registering, such students should consider whether their purpose might be better served by taking a graduate degree, diploma, or certificate program.) To obtain a second undergraduate degree, students must:
 - a) register in a program with a higher concentration than a Minor, and
 - b) complete at least two-thirds of the credits normally required for the second degree in courses other than those credited to the first degree — for example, a minimum of 60 credits must be completed when the normal requirement is 90 credits, and
 - c) complete at least 36 credits in the new field of concentration.

Further detailed information is available in §16.1.3 and §16.1.7 of this Calendar.

13.3.4

Transfers from Other Post-Secondary Institutions

Each transfer application is considered on its merits. Credits from junior colleges, community colleges, or colleges of applied arts and technology outside Quebec will, in general, be given the same recognition towards undergraduate programs as they receive in their respective provinces.

13.3.5

Pro-Tanto Credits and Exemptions

Pro-tanto credits are credits for courses taken at another institution (or in another Concordia program) which may be transferred towards a Concordia degree. The Office of the Registrar or the respective Faculty assesses all requests for pro-tanto credits.

An exemption from a course has no credit value towards a degree. Exemptions from required courses may be granted in cases where students have already covered the work at any institution, with an appropriate level of performance. Any such courses may be replaced with courses chosen in consultation with their advisors. Students cannot retain credits for a repeated course or a course in which any exemption has been granted, unless they have been granted prior approval from the Faculty and/or departmental advisor.

13.3.6

Applicants from Outside Canada

In general, candidates who have completed the level of education required for admission to university in their home country and have achieved good grades are eligible to apply for admission. Further information regarding international admission requirements is available in §19.

13.3.7

Former Concordia Students

Former Concordia students who have been absent from Concordia may be required to submit a new application for admission. Students are advised to contact the Office of the Registrar for information on the correct procedure. Normally,

- Students who, during their absence from Concordia, attended another institution and attempted at least 12 credits, must submit a new application and make arrangements to have an official transcript sent to the Admissions Application Centre. Advanced standing will be assessed as part of the admissions process. If fewer than 12 credits have been attempted or if attendance at

another institution was based exclusively on a letter of prior approval from the Faculty Student Request Committee, a new application would normally not be required. Students may, however, be eligible for transfer credits for the work completed during their absence.

- Students who **officially** withdrew from Concordia University and who wish to return to study must submit a new application. If they have attended another institution during their absence, they must also make arrangements to have an official transcript sent to the Office of the Registrar. Advanced standing will be assessed as part of the admissions process.
- Students in the Faculty of Arts and Science who have been absent from their program for nine consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.
- Students in the John Molson School of Business who have been absent from their program for six consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.
- Students in the Faculty of Engineering and Computer Science who have been absent from their program for six consecutive terms or more will be withdrawn from their program and must submit a new application for admission through the Admissions Application Centre.
- Students in the Faculty of Fine Arts who have a lapse in their program of study for nine consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.

The Office of the Registrar or the respective Faculty assesses all requests for pro-tanto credits. Further detailed information is available in §13.3.3, §16.1.3 and §16.1.7 of this Calendar.

13.4 LANGUAGE PROFICIENCY

While the language of instruction at Concordia is English, most assignments and examinations may be submitted in French. Students whose first language is neither French nor English must demonstrate language proficiency prior to their admission to Concordia. They will ordinarily be exempt from pre-admission English tests if they meet one of the following criteria:

1. They hold a Quebec Diploma of Collegial Studies (or its equivalent from an English-language school system).
2. They have obtained a grade of "C" or better in the GCSE English language examination.
3. They have studied full-time for at least three years in an educational institution where the sole language of instruction is English.

If none of these criteria fits, a student whose first language is other than English must write a pre-admission English test. Proof of proficiency in English must be provided by achieving the appropriate score on one of the following:

- Concordia English Language Diagnostic Test (CELDT) — for those applicants who reside in the Montreal area;
- Test of English as a Foreign Language (TOEFL) — required score: 550 on paper-based test, 213 on computer-based test, or 75 on the Internet-based test (TOEFL iBT);
- University of Michigan English Language Assessment Battery (MELAB) — required score: 85;
- International English Language Testing System (IELTS) — required score: 6.5.

Only when the Office of the Registrar has received the test results is the student's application to Concordia considered complete.

In all cases, the University reserves the right to require a proficiency test if it is deemed necessary.

13.5 APPLYING FOR ADMISSION

Students are encouraged to submit an application through the Concordia website at <http://www.concordia.ca>. Students should apply for admission as early as possible to allow sufficient time for the evaluation of their applications. This is especially true for applicants from outside Canada. Supporting documents must be submitted at the time of application or as soon afterwards as they become available.

Applicants must state their full academic history on their application for admission or risk cancellation of their acceptance or registration. No transfer credit will be awarded retroactively for former studies not reported in the application.

13.5.1 Application Fee

There is a \$75 (Canadian) application fee required with every application, payable to Concordia University by certified cheque, money order, MasterCard, Visa, or debit card (Interac). Applicants from outside Canada may pay this fee by international money order or draft drawn on a Canadian bank in Canadian funds.

This application fee is not refundable under any circumstances, nor can it be used towards tuition. It is not transferable to a session other than that for which the student is applying.

13.5.2
Deadlines

September is the normal point of entry to full-time and part-time studies. Entry in January and in May is limited to certain programs. Students should refer to the admissions information within the relevant Faculty section, in the Admission Guide, or on the Concordia website.

March 1, November 1, and January 15 are the application deadline dates normally set for the Fall, Winter, and Summer terms respectively. However, candidates are encouraged to submit their applications well before the start of term to allow sufficient time for evaluation and notification. Candidates applying from outside of Canada should submit their applications by February 1 for September entry and September 1 for January entry. Please note that as course selection is limited in the summer, students may have difficulty obtaining a full course load.

13.5.3
International Applicants

While the normal entry period for International Students from outside Canada is September, all faculties also consider them for January admission. The Faculty of Arts and Science, the John Molson School of Business, and the Faculty of Engineering and Computer Science have implemented a rolling international admissions process whereby a student whose application becomes complete too late to be considered for a given session will automatically be considered for the next entry date. While there is no rolling admission for Fine Arts, a limited number of programs are available for the January Term. *NOTE: Visa arrangements can take up to three months after the acceptance letter has been issued to a student. For this reason, students wishing to be considered for January admission are recommended to submit their applications many months in advance.*

13.6 SPECIAL ADMISSIONS

13.6.1
Mature Students

Mature students are undergraduates who have not met the regular academic admission requirements (e.g. completion of a DEC or equivalent), but have been admitted on the basis of age, experience, and potential. Mature students may study full-time or part-time. Information on Mature Entry is contained in §14.

13.6.2
Visiting Students

Visiting students are undergraduate students from other universities who have written approval from their home university to take courses at Concordia University, or they are students currently registered in certain Certificate programs sponsored by external associations. These students may apply for Visiting student status by contacting the Birks Student Service Centre. The granting of such status in no way guarantees a student a place in a course.

1. Students from other Quebec universities who wish to take courses at Concordia must complete a Web-based Inter-University Exchange Authorization form at <http://www.crepuq.qc.ca>. Additional information is available in §16.1.7.

2. Undergraduate students from other universities outside the province of Quebec who wish to take courses at Concordia must submit a letter of permission from the registrar of their home university and Canadian citizenship/permanent residency documents or *Quebec Certificate of Acceptance (CAQ)* and/or student visa. Visiting students who are Canadians or Permanent Residents may be eligible to pay Quebec rates of tuition upon submission of proof of Quebec residency in accordance with government criteria (see §13.7).

3. Students who wish to register in Certificate programs sponsored by external associations must submit proof of membership in the association and citizenship documents. Visiting students who are Canadians or Permanent Residents may be eligible to pay Quebec rates of tuition upon submission of proof of Quebec residency in accordance with government criteria (see §13.7).

13.6.3
Independent Students

Concordia University allows individuals who are not seeking a degree or Certificate to register as Independent students, if they satisfy admission requirements. Independent students may register for a maximum of 18 credits a year, equally divided between Fall and Winter terms. They register for courses once all undergraduate students have selected their schedules; their Independent status in no way guarantees them a place in a given course.

There are two categories of Independent student:

1. those who meet regular admission requirements.

2. Canadian Citizens and Permanent Residents who meet Mature Entry requirements (see §14.1), and satisfy the University that they have the right background for the course(s) for which they wish to register.

NOTE: Independent students must satisfy the University that they have completed prerequisite courses where required.

Applicants for Independent status should contact the Office of the Registrar. They will be required to submit evidence of having met University entrance requirements. Independent students who are Canadians or Permanent Residents may be eligible to pay Quebec rates of tuition upon submission of proof of Quebec residency in accordance with government criteria (see §13.7).

Independent students who subsequently wish to enter a degree or Certificate program must make a formal application to the Office of the Registrar. Credits acquired by Independent students may subsequently be applied towards a degree or Certificate program, if appropriate. In the case of the Faculty of Arts and Science, an Independent student may be granted a maximum of 30 credits towards a degree.

13.6.4 Senior Students

Concordia University is committed to lifelong learning and community service. Seniors at Concordia either take credit courses in a program or as Independent students. They can also choose to audit courses on a non-credit basis through the Senior Audit Program administered by the Student Transition Centre.

Students aged 55 and over who wish to attend undergraduate courses primarily in the Faculty of Arts and Science for personal interest rather than for credit, may register to audit courses. Though not required to write class assignments or final examinations, they participate in every other aspect of the courses. Senior audit students pay significantly reduced fees. For more information, call 514-848-2424 ext. 3893. If seniors wish to pursue an undergraduate program or take courses as Independent students for credit, they may do so at the regular tuition fees. Some assistance through the William Schiff Scholarship is possible for those 55 or over. Applications and information may be obtained at the Financial Aid and Awards Office.

13.7 REQUIRED DOCUMENTS

Proof of Canadian Citizenship or Permanent Residency

Canadian Citizens and Permanent Residents must present proof of their status in Canada. Students who have not provided such evidence are automatically charged international tuition fees. To prove Canadian citizenship or Permanent Resident status, applicants must supply the Office of the Registrar with an original or a legible photocopy of one of the following documents:

- Canadian birth certificate;
- Canadian citizenship or Permanent Resident Card/(IMM-1000/5292 papers);
- Certificate of Indian Status Card.

The following documents are **not acceptable**:

- Driver's licence;
- Medicare or health insurance card;
- Social Insurance Number card.

In case of a discrepancy in information provided, the University reserves the right to ask students to provide additional documentation to verify their legal name.

Proof of Quebec Residency (Applicable to Canadian Citizens and Permanent Residents)

The University will endeavour to establish Quebec Residency status for applicants from Quebec Cegeps by importing province of residence data electronically from government files based on their "permanent code".

Other Canadian Citizens and Permanent Residents must present proof of Quebec residency. Students who have not provided such evidence are automatically charged non-Quebec resident fees.

To prove Quebec residency, applicants must supply the Office of the Registrar with an original or a legible photocopy of one of the following documents:

- An "authentic" birth certificate issued by the Government of Quebec (regardless of place of birth), which does not contain the notation "Émis en vertu de l'article 137 du Code Civil";
- A "semi-authentic" birth certificate issued by the Government of Quebec (regardless of place of birth) before January 1, 1994, which contains the notation "Émis en vertu de l'article 137 du Code Civil";
- A baptismal certificate issued by a Quebec parish before January 1, 1994, regardless of place of birth, as long as the baptism took place no more than four months after birth;
- A current Canadian passport on which the place of birth is clearly listed as being in Quebec;
- A *Certificat de sélection du Québec* (CSQ) or an official letter from *le ministère des Communautés culturelles et de l'immigration du Québec* attesting that the student is the holder of a CSQ;
- A loan certificate issued by *l'Aide financière aux études du ministère de l'Éducation, du Loisir et du Sport* for the current year.

In addition, the student may fit into one of a number of other approved government categories. Among the categories recognized by the Government are:

- A student adopted by a person with residency status in Quebec at the time of the adoption;
- A student, one of whose parents resides in Quebec;
- A student who has resided in Quebec for at least 12 months before becoming a full-time student;

- A student who came to Canada as a Permanent Resident without a *Certificat de sélection du Québec* (CSQ) but has resided in Quebec for at least three months without having lived elsewhere for more than three months since landing in Canada;
- A student whose spouse qualifies under these criteria as a Quebec Resident.

If, upon acceptance to a regular University program, proof of Quebec residency has not been established, students must apply for Quebec residency on the student portal at www.myconcordia.ca and submit the required documentation by the deadline for the term in question. Details can be found at <http://quebecresidency.concordia.ca>.

13.7.1
All Applicants

Academic Documents

Applicants must submit all secondary and post-secondary academic records. They must ensure that an **official** transcript is forwarded directly to the Admissions Application Centre by all the institutions which they have attended. (Applications will not be considered until an official transcript from EACH institution has been received. These are required even where the student may have earned no credit.) With their application, students currently enrolled at an institution must include results from all previous terms together with a list of courses in progress. They must arrange for an **official** transcript with the results of the final semester to be forwarded as soon as possible. All documents must be originals or appropriately certified copies. Uncertified copies are not acceptable; neither are records transmitted by fax. Transcripts in a language other than English or French must be accompanied by a notarized translation. If the transcript does not detail the subjects and the grades, a certified statement of these from an authorized official of the institution should also be included.

The above procedure whereby institutions send official transcripts directly to Concordia University is the normal method for receipt of official transcripts. However, in order to accelerate the review of their file, students may submit official transcripts in sealed envelopes along with their application, subject to the following procedures: applicants are to request each previous educational institution to provide them with a copy of their official transcript, sealed in an envelope which bears the name and address of the school, the institutional logo (if applicable), a notice on the envelope stating that it contains official transcripts, and a signature/signature stamp/explanatory label placed across the seal of the envelope. The sealed-envelope transcript method may be used only for transcripts issued by institutions in North America.

NOTE: All required documents received by Concordia University become the property of the University. Official documents and/or transcripts will not be returned to the applicant.

13.7.2
Permanent Code

The *Ministère de l'Éducation, du Loisir et du Sport* requires all registered students to have a "permanent code" (a unique identifying number) which is assigned by the Ministry. Students who already have a permanent code must enter it on their application form.

For students who have attended or are currently attending Cégep in Quebec, Concordia University will automatically obtain the required Cégep record electronically from CREPUQ (*Conférence des recteurs et des principaux des universités du Québec*) by using their permanent code.

13.8 SELECTION PROCESS AND NOTIFICATION

13.8.1
Conditional Admission

Applicants seeking admission to undergraduate programs may be granted conditional acceptance on the basis of available academic records, including interim results for the current year. Final admission is contingent upon a student's successfully completing all the academic admission requirements and meeting all conditions as stated in the letter of conditional acceptance issued by the Office of the Registrar or by the respective Faculty.

13.8.2
Confirmation Fee

Applicants who have been granted admission or conditional admission to full-time studies or to certain part-time programs are required to submit a \$50 (Canadian) confirmation fee to confirm their intention to attend the University. This non-refundable confirmation fee is applied towards tuition fees.

Applicants who receive conditional acceptance, but who are ultimately denied admission because they have not completed the minimum academic requirements for entrance, will receive a refund of their confirmation fee.

13.8.3
Registration

Complete information regarding registration is available at: www.myconcordia.ca.



mature entry

14.1 *ADMISSION AS A MATURE STUDENT*

14.2 *PROGRAM REQUIREMENTS*

14.2.1 Faculty of Arts and Science

14.2.2 John Molson School of Business

14.2.3 Faculty of Engineering and Computer Science

14.2.4 Faculty of Fine Arts

14.3 *ASSISTANCE*

section 14



14

MATURE ENTRY

Concordia University has a long history of making education accessible to men and women of all ages and academic backgrounds. Through mature entry, those lacking the regular pre-university requirements can still earn university degrees and certificates.

14.1 ADMISSION AS A MATURE STUDENT

At Concordia, the term “mature entrants” is used to designate students aged 21 and over who have not completed the normal academic admission requirements. The designation does not apply to adult applicants whose academic background qualifies them for regular admission.

Students apply for admission to particular programs within one of the four Faculties of the University. In every respect, with the exception of the 18-credit requirement, mature entrants at Concordia are treated as regular undergraduates and are expected to meet the same standards before graduating. The admission of applicants for mature entry is subject to the following conditions:

1. Applicants must have reached the age of 21 by August 1 for the September term, December 1 for the January term, or April 1 for the May term in any given year;
 2. Although not meeting the normal academic requirements for admission (Québec Diplôme d'études collégiales or the equivalent), applicants must satisfy the University that they have the potential to undertake undergraduate courses; those who have the Québec Diplôme d'études collégiales or the equivalent should contact the Office of the Registrar and their respective Faculty regarding their admission;
 3. Applicants must have been out of school — that is not engaged in full-time study — for at least 24 months since attaining the age of 18. Applicants who have been out of school for only 12 months are also admissible provided that they have had no unfavourable academic record in the previous 24 months;
 4. Applicants must be Canadian Citizens or Permanent Residents (Landed Immigrants). Applicants must submit proof of citizenship and age, together with school records and any material which may indicate ability to pursue university studies. Applicants are expected to arrange for official transcripts of all of their previous studies to be sent directly to Concordia; (§13 provides general information on how to apply for admission.)
 5. In all programs, some students may require courses in English as a Second Language, as determined by Language Proficiency Testing. See §13.4 of this Calendar regarding Language Proficiency Testing.
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14.2 PROGRAM REQUIREMENTS

Normally, mature entrants without any Cegep or equivalent must complete at least 18 additional credits of preparatory or complementary courses. These additional credits are intended to help them to prepare for their subsequent studies. Students with partial Cegep or equivalent may be given advanced standing for some of the additional 18 credits.

The 18-credit requirement associated with mature entry varies from one program to another. Students must follow the mature entry requirement for their program of study in consultation with their Faculty/Program advisors.

14.2.1 Faculty of Arts and Science

When selecting courses to fulfil the 18-credit requirement, mature students in the Faculty of Arts and Science are encouraged to consult with advisors at the Student Transition Centre. When selecting program courses, students are advised to consult with their program advisor.

For most BA programs, there are no specific program prerequisites. Therefore, within the initial 18 credits, students are encouraged to take courses which will broaden their background or help them develop study skills.

Consultation with the Student Transition Centre is necessary in the choice of the 18 additional credits required in the case of a Certificate.

Arts

The programs listed below have specific prerequisites which will take up some or all of the initial 18 credits.

Community Service (Certificate)

AHSC 230³, 232³, 270³; ENGL 212³; 6 credits in the social sciences chosen in consultation with the program advisor.

Economics (BA) MATH 209³
NOTE: Students may need one or more of MATH 200³ and MATH 206³.

Early Childhood and Elementary Education or BEd (TESL)
NOTE: Mature students wishing to apply to Early Childhood and Elementary Education or the BEd (TESL) must complete 18 credits prior to applying for entry.

Family Life Education (Certificate) AHSC 220³, 230³, 232³; ENGL 212³; 6 credits in the social sciences chosen in consultation with the program advisor.

Human Relations, Specialization (BA) SOCI 212³ or INTE 296³

Leisure Sciences, Specialization (BA) SOCI 212³ or INTE 296³

Therapeutic Recreation, Specialization (BA)
BIOL 200³ or 201³ or 202³

Mathematics (BA) MATH 203³, 204³, 205³
NOTE: Students may need one or more of MATH 200³ and MATH 201³.
NOTE: Students not having MATH 202³ or the equivalent must include it in their 18 credits.

Psychology (BA) PSYC 200⁶; BIOL 201³ or 202³; 3 credits in Mathematics (in preparation for statistics) chosen in consultation with the Student Transition Centre.

Science

For those mature entry students pursuing a degree in Science, the following courses must be included within their 108-credit requirement:

- 6 credits in Chemistry: CHEM 205³, 206³
- 9 credits in Mathematics: MATH 202³, 203³, 205^{3*}
- 8 credits in Physics: PHYS 204³, 205³, 224¹, 225¹

Additional requirements for programs in the following Departments:

- Biology and Psychology: BIOL 201³
- Chemistry: PHYS 206³, 226¹ and BIOL 201³
- Biochemistry: PHYS 206³, 226¹ and BIOL 201³
- Environmental Geography: PHYS 206³, 226¹ and BIOL 201³
- Environmental Science: PHYS 206³, 226¹, MATH 204³ and BIOL 201³
- Exercise Science: PHYS 206³, 226¹ and BIOL 201³
- Mathematics: MATH 204³
- Physics: PHYS 206³, 226¹ and MATH 204³

NOTE: Students must consult with advisors of the Student Transition Centre to determine the appropriate sequence of the above credits in the BSc degree.

** Students not having MATH 201³, or the equivalent, must take it in place of one of their elective courses. Some students may also need MATH 200³.*

14.2.2 John Molson School of Business

Mature Entry — the 108-credit program

In addition to the 90-credit program, mature entry students will be required to complete the following 18 credits outside the offerings of the John Molson School of Business. Those credits are:

- 6 credits in MATH 208³, 209³
- 6 credits in ECON 201³, 203³
- 3 credits in DESC 200³
- 3 additional elective* credits.

**These elective credits must be selected from outside the offerings of the John Molson School of Business.*

NOTE: Students may need one or more of MATH 200³ and MATH 206³.

Requirements for Certificate programs are listed with the program descriptions in §61 of this Calendar.

14.2.3 Faculty of Engineering and Computer Science

Engineering

Mature entrants to the BEng degree, which requires the completion of a minimum of 120 credits, are also required to complete all outstanding required prerequisites in addition to their program. Prerequisite courses are as follows:

- CHEM 205³
- MATH 202³, 203³, 204³, 205³

PHYS 204³, 205³

Six credits chosen from courses in the humanities and social sciences. ESL courses and courses that focus on the acquisition of a language may not be used to meet this requirement. Students should refer to §71.20.6 when selecting these courses.

NOTE: In all programs, students may need one or more of MATH 200³ and MATH 201³.

NOTE: Some students may require courses in English as a Second Language, as determined by Language Proficiency Testing.

Computer Science

Mature entry students accepted to the BCompSc must include in their degree program (minimum 108 credits) the following courses:

- a) Information Systems, Software Systems, Computer Applications, Computation Arts, and Mathematics and Statistics Options:
MATH 202³, 203³, 204³, 205³
- b) Computer Systems Option:
MATH 202³, 203³, 204³, 205³
PHYS 204³, 205³
CHEM 205³

Depending on the number of free electives in their option, mature entry Computer Science students may use up to a maximum of 24 credits of prerequisites within the 108-credit program.

A maximum of six credits of prerequisites may be used within the regular 90-credit program.

NOTE: In all programs, students may need one or more of MATH 200³ and MATH 201³.

NOTE: Some students may require courses in English as a Second Language, as determined by Language Proficiency Testing.

14.2.4

Faculty of Fine Arts

Mature entry students wishing to pursue degree and Certificate programs in the Faculty of Fine Arts must take 18 additional credits appropriate for entry into their ultimate area of concentration. These credits will be chosen with the approval of the Faculty advisor.

14.3 ASSISTANCE

Mature students accepted into the University must inform themselves of the specific requirements of their program and should meet with their program advisors in the Faculties. They may also benefit from the additional support available at the Student Transition Centre. (For more information on the Student Transition Centre, see §21.)



tuition and fees

15.1 TUITION AND FEES

15.2 FINANCIAL OBLIGATIONS

- 15.2.1** General Information
- 15.2.2** Payment Deadlines

15.3 TUITION REFUNDS (FINANCIAL CREDITS OR REFUNDS)

- 15.3.1** General Information
- 15.3.2** Withdrawal (DNE) deadlines
- 15.3.3** Tuition Refund Request Committee

section 15



15 TUITION AND FEES

15.1 TUITION AND FEES

The University reserves the right to modify the published scale of tuition and other student fees without prior notice, at any time before the beginning of an academic term. The most current Tuition and Fees information is available on the Concordia University website (www.concordia.ca) Quick Link to the "Tuition and Fees" site.

Tuition fees for undergraduate courses taken by regular, qualifying or Independent students are assessed on a per credit basis as listed below:

Canadian and other students with Permanent Residence (Landed Immigrant) status:

Quebec residents [†]	\$ 62.27
Non-Quebec residents [‡]	\$179.28

† Please refer to §13.7 of this Undergraduate Calendar for the Government of Quebec rules for determining residency.

‡ This rate includes a \$117.01 per credit premium which must be collected for the Government of Quebec.

NOTE: Non-Quebec residents following certain programs in the French Language, French Literature or Quebec Studies may be exempt from paying this premium. Please refer to §19.3, article 8, for a list of programs for which an exemption may be granted. These are the same programs from which International students may be exempted from paying the International student premium.

*International students

John Molson School of Business	\$466.67
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Arts and Science, Engineering and Computer Science, Fine Arts programs; Independent students

The tuition fee assessed per credit includes a premium which must be collected for the Government of Quebec. The rate of the premium is determined by the government financial sector of the course as follows:

Arts (mostly Fine Arts), <i>sciences pures</i> , <i>sciences appliquées</i> (includes Government premium of \$383.46 per credit)	\$445.73
Administration, <i>sciences humaines</i> , <i>éducation</i> , <i>lettres</i> (includes Government premium of \$337.26 per credit)	\$399.53

*Certain International students may be eligible to pay the same fees as Canadian students. Detailed information may be obtained from the Office of the Registrar. See §19.3 for guidelines concerning this policy.

Permanent Code Surcharge	\$445.73
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Effective Fall 2000, all registered Quebec university students for whom the University receives funding must have a "permanent code" which is issued by the *Ministère de l'Éducation, du Loisir et du Sport*. Students who do not have a permanent code must submit a form and supporting documentation to the Office of the Registrar. If the required documents are not submitted within the prescribed deadline, students will be charged an additional \$445.73 per credit of tuition. Further information, including a copy of the Permanent Code Data form, is available at: <http://permanentcode.concordia.ca>

In addition to the tuition fee, the following fees are charged on a per credit basis:

Administrative Fee	\$ 9.00
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Students in financial need may apply for an *Administrative Fee Bursary*. Applications for the *Administrative Fee Bursary* are submitted through the student portal at www.myconcordia.ca under Financial → Financial Aid and Awards → Web Applications → New Application → Administrative Fee Bursary.

Student Service Fee	\$ 10.26
Recreation & Athletics Fee	\$ 2.92
Information Technology Fee	\$ 4.08
Copyright Fee	\$ 0.80
Student Association and Activity Fees	
Arts and Science Federation of Associations (ASFA)	\$ 8.63*
Commerce and Administration Students Association (CASA)	\$ 12.96*
Engineering and Computer Science Association (ECA)	\$ 9.41*
Fine Arts (CSU/FASA)	\$ 10.32*
Independent Students (CSU)	\$ 7.41*

*Fees include:	ASFA	CASA	ECA	FASA	CSU
CSU Fee	\$ 1.75	\$ 1.75	\$ 1.75	\$ 1.75	\$ 1.75
Advocacy Centre	\$ 0.30	\$ 0.30	\$ 0.30	\$ 0.30	\$ 0.30
Art Matters Festival	\$ 0.08	\$ 0.08	\$ 0.08	\$ 0.08	\$ 0.08
Non-Academic Clubs & Associations	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25
International/Ethnic Association	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06
Student Centre Charge	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00	\$ 2.00
Association Fee	\$ 1.22	\$ 2.05	\$ 2.00	\$ 1.00	
People's Potato	\$ 0.26	\$ 0.26	\$ 0.26	\$ 0.26	\$ 0.26
The Link	\$ 0.19	\$ 0.19	\$ 0.19	\$ 0.19	\$ 0.19
The Concordian	\$ 0.19	\$ 0.19	\$ 0.19	\$ 0.19	\$ 0.19
Broadcast Media Fund	\$ 0.09	\$ 0.09	\$ 0.09	\$ 0.09	\$ 0.09
CJLO Radio	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25
Concordia <i>française</i>	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06
<i>Le Frigo-Vert</i>	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25
Sustainable Concordia	\$ 0.05	\$ 0.05	\$ 0.05	\$ 0.05	\$ 0.05
Concordia Volunteer Abroad Program	\$ 0.35	\$ 0.35	\$ 0.35	\$ 0.35	\$ 0.35
Women's Centre	\$ 0.29	\$ 0.29	\$ 0.29	\$ 0.29	\$ 0.29
Cinema Política	\$ 0.02	\$ 0.02	\$ 0.02	\$ 0.02	\$ 0.02
Sustainability Action Fund	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25
Cdn. Federation of Students	\$ 0.41	\$ 0.41	\$ 0.41	\$ 0.41	\$ 0.41
QPIRG	\$ 0.31	\$ 0.31	\$ 0.31	\$ 0.31	\$ 0.31
VAV Gallery				\$ 0.60	
FASA Projects & Clubs				\$ 0.80	
FASA John Russell Memorial Reading & Reference Room				\$ 0.50	
R.O. Wills Computer Laboratory		\$ 1.00			
Career Placement Centre		\$ 2.50			
Total Fee	\$ 8.63	\$ 12.96	\$ 9.41	\$ 10.32	\$ 7.41

FEUQ – Fédération étudiante universitaire du Québec \$ 2.50 per term

In addition to the tuition, student service and student association fees, the following fees are charged:

Engineering and Computer Science Fee (charged in the Fall and Winter Terms only)	
Full-time	\$ 30.00 per term
Part-time	\$ 15.00 per term
Registration Fee	\$ 20.00 per term
Concordia Student Health and Dental Care Plan	\$195.00 per year
(charged to Canadian students registered in more than three credits in a given term)	

Coverage	Sept. – Aug.	Sept. – Dec.	Jan. – Aug.
Health & Dental Plan	\$195.00	\$ 65.00	\$130.00
Health Plan Only	\$ 84.12	\$ 28.04	\$ 56.08
Dental Plan Only	\$110.88	\$ 36.96	\$ 73.92

Students can opt out of the Student Health and/or Dental Care Plan by visiting www.aseq.com and completing the online opt-out process during the opt-out period. Students who are registered in Fall (/2) or Fall/Winter (/3) term courses must opt out between the first day of Fall-term classes and the Fall-term DNE deadline (September 4 – 18, 2007). Students enrolled in Fall (/2) or Fall/Winter (/3) term courses **may not opt out** after the September deadline or during the Winter-term opt-out period. Students who are registered in Winter (/4) term courses only must

opt out between the first day of Winter-term classes and the Winter-term DNE deadline (January 3 – 17, 2008). For information regarding the plans, please contact the Quebec Student Health Alliance (ASEQ) at 514-789-8790 or www.aseq.com.

New Students Program Fee (new students in first term of enrolment only)

Full-time students	\$ 35
Part-time students	\$ 25
Health Insurance for International Students (See §19.5)	\$515 per year
((\$515 September to August; \$430 January to August; \$275 May to August))	
Surcharge on Private Study Music Courses	
Six-credit course	\$380
Three-credit course	\$190
Co-op (Institute for Co-operative Education) Fee	\$185 per term
(This fee is charged to students participating in a Co-operative Education Work/Study Program)	
Residential Laboratory Fee (AHSC 361)	\$ 45
Residence Rent (September 1 – May 15)	
Application Fee (non-refundable deposit)	\$100
Activity Fee	\$ 8.75 per month
Hingston Hall Residence (Loyola Campus)	
Single Room	\$378.74 per month
Double Room	\$324.29 per month
Jesuit Residence (Loyola Campus)	
Single Room	\$640 per month
Grey Nuns Residence (SGW Campus)	
Small, Single Room*	\$500 per month
Small, Single Room	\$535 per month
Large, Single Room	\$560 per month
Small, Double Room	\$435 per month
Large, Double Room	\$460 per month
*room has no sink	

Other Fees

Academic Re-evaluation Fee	\$ 15
Application Fee	\$ 75
Confirmation Fee (non-refundable deposit)	\$ 50
Course Descriptions	\$ 5 per academic year
Course Re-evaluation Processing Fee	\$ 15
Degree:	
Mailing of Degree	\$ 15
Certification of Copy of Degree	\$ 3
Replacement Degree	\$ 50
Degree Transfer Application	\$ 40
Examination:	
Deferred Examination/Medical Examination Processing Fee	\$ 15
Off-Campus Examination	\$ 10
Special Examination Fee (CELDT)	\$ 20
Supplemental Examination	
(plus Invigilation Fee when applicable)	\$ 25
Fax Fee (for each 10 pages or less, excluding cover sheet)	\$ 10
Graduation:	
Graduation Fee	\$ 40
Late Application to Graduate	\$ 15
Handling Charge on Returned Items (e.g. returned cheque)	\$ 20
Late Completion Fee	\$ 15
Late Payment Fee	\$ 75 per term
Letter of Attestation or Attestation Form	\$ 10
Letter of Financial Standing	\$ 10
Locker Rental Fee	
<u>Summer Term</u>	
All buildings except Engineering, Computer Science and Visual Arts Complex (EV)	\$ 11.70
Engineering, Computer Science and Visual Arts Complex (EV)	
Half Locker	\$ 9.36
Full Locker	\$ 11.70
Custom Locker	\$ 11.70

<u>Fall/Winter Term</u>	
All buildings except Engineering, Computer Science and Visual Arts Complex (EV)	\$ 23.41
Engineering, Computer Science and Visual Arts Complex (EV)	
Half Locker	\$ 14.05
Full Locker	\$ 23.41
Custom Locker	\$ 23.41
Late Fee (if locker not emptied by end of term)	\$ 10
Off-Campus Centre Charge	\$ 5 per credit*
Parking (Loyola Campus)	\$115 per term
Registration:	
Authorization to Register Fee (Independent students)	\$ 15
Registration Fee	\$ 20 per term
Late Registration Fee (registrations effected on or after the start of the Late Registration period)	\$ 25
Student Identification Card	
First Identification Card	\$ 11.50
Replacement of Identification Card	\$ 11.50
Student Record (copy of)	\$ 3
Transcript of Academic Record (per address – maximum 3 copies) (includes \$3 for student copy – see Fax Fee if applicable)	\$ 9
Tuition Receipts for Educational Tax Credit (no charge for first set)	\$ 12
University Calendar (no charge for first copy)	\$ 7
U-Print Solutions (laser printer copies)	
Black and White: single sided and duplex	\$ 0.15 per copy
Colour: single sided and duplex	\$ 0.75 per copy

*There are surcharges (cost varies by course) for Distance Learning and Off-Campus courses. For further information, please contact the Open and Distance Learning Coordinator at 514-848-2424 ext. 3440.

15.2 FINANCIAL OBLIGATIONS

15.2.1 General Information

Once a student has registered for one or more courses, he/she is responsible for payment of the resulting fees. Students are required to make payment when fees become due. Student account balances are available on the student portal at www.myconcordia.ca. Payment deadline dates are available in §15.2.2 of this Calendar. **No printed invoices or statements of account will be issued by the University.**

Accounts and Registration Restrictions

In order to register in future terms, the student's account must be in good standing (paid in full). All monies owing to the University (such as tuition and other fees, residence rent, delinquent emergency loans, library fines, etc.) must be paid when they become due.

Students with overdue or delinquent accounts are not permitted to register or re-register until payment or satisfactory payment arrangements have been made with the Student Accounts Office (see payment deadlines below).

Other Accounts Restrictions

Failure to make payment, or to arrange satisfactory payment settlement of amounts owing to the University when they become due is sufficient cause to bar the student from classes or examinations, and to withhold diplomas, scholastic certificates, or transcripts of record until the debt is adjusted with the University.

Student Account Balance

Students are required to make payment when fees become due. Student account balances are available on the student portal at www.myconcordia.ca. Payment deadline dates are available in §15.2.2 of this Calendar. **No printed invoices or statements of account will be issued by the University.**

The moment a student registers for one or more courses, the student's account balance is automatically billed.

Methods of Payment

The University will not accept cash for the payment of student tuition and other fees. Payments can be made by debit card (Interac), MasterCard, Visa, certified cheque, money order, or personal cheque. With a payment stub, payments can be made at any chartered bank or automatic teller machine in Canada. Payments can also be made through most Canadian banking institutions' telephone and Web payment services, and through Concordia University's On-Line Credit Card Payment Service available on the Financial page of the student portal (www.myconcordia.ca).

Payment Arrangements

Students encountering difficulties meeting their financial obligations with regard to outstanding balances on their student account should contact the Student Accounts Office, Hall Building, Room H 541, 514-848-2424 ext. 4900 **before the payment deadline date.**

Other Methods of Payment (Payment Arrangements)

- Students who are receiving government loans and/or bursaries **may** be eligible to receive a *Tuition and Other Fees Deferral Contract*. Contact the Financial Aid and Awards Office (SGW – LB 085) for further information.
- Students whose “*Sponsor*” (e.g. government, embassy, corporation) is paying 100% of their tuition and other fees directly to Concordia University must present original proof of sponsorship to the Student Accounts Office before the payment deadline date.
- University employees may be eligible for *Employee Tuition Waivers*. Tuition Waiver application forms are available online at <http://web2.concordia.ca/hr/forms/>. The completed form must be submitted to the Human Resources Office (SGW – ER 500) at least one or two days before a payment becomes due. The waiver must be processed to the student's account prior to the payment deadline; otherwise, interest will be charged on the total outstanding balance (including the portion that will be covered by the Tuition Waiver).
Please note that **Employee Tuition Waivers cover only the tuition base rate for university credit courses. Non-Quebec Resident and International Student premiums and compulsory fees are not covered by an Employee Tuition Waiver. Excluding the base tuition fees, all fees must be paid by the student by the payment deadline date.**
- *Payroll Deductions* may be available to teaching and research assistants and certain Concordia employees. Further information and Payroll Deduction forms are available at the Payroll Office (SGW – ER 500).

Payment arrangements **do not supersede** the University's tuition and other fees payment policies with regard to the assessment of interest charges, the release of transcripts, student records, degrees, diplomas, or other official records, or permission to register in future terms. In addition, students will not be permitted to register for additional courses or future academic terms until all current amounts due are paid in full. Interest charges are assessed on all outstanding balances (and deferred balances) regardless of whether or not a payment arrangement has been made with the Student Accounts Office. The Student Accounts Office reserves the right to cancel a current registration if payment arrangements are not honoured. However, current registrations **will not automatically** be cancelled for non-payment of a student's account.

Miscellaneous Fees/Charges

Miscellaneous fees (e.g. interest charges, locker fees, fines, etc.) are due 30 days from the date that the charge is posted to the student's account. After that date, interest charges will be applied to unpaid balances.

Adjustments to Accounts

All accounts are subject to revision for changes to the published scale of fees (which may be made without prior notice at or before the beginning of an academic term), registrations of record, and for the adjustment of errors or omissions, as well as in the case of courses cancelled by the University.

Returned Items (Cheques, Credit Card Payments)

Current and/or future registrations **may** be cancelled if a cheque or credit card payment is returned for any reason. A \$20 processing fee will be charged for each returned item.

Delinquent Accounts

Delinquent accounts are managed as follows:

1. Interest

Interest is charged on all outstanding balances at the rate of 8% per annum. This rate may change from time to time in conformity with prevailing interest rates. **Monthly interest is charged on unpaid fees for the:**

- Summer Term course/enrolment beginning May 31
- Fall Term course/enrolment beginning September 30
- Winter Term course/enrolment beginning January 31

2. Collection

The Student Accounts Office will

- a) send an e-mail to the student's e-mail address on record as a reminder that the student's account has become delinquent and that the account will be placed with a collection agency if payment is not received within a specified period of time;
- or

- b) send a letter to the student's mailing address on record as a reminder that the student's account has become delinquent and that the account will be placed with a collection agency if payment is not received within a specified period of time; and
- c) place the account with a collection agency if payment has not been received within the period of time noted on both the e-mail and letter reminders.

The University reserves the right to proceed by way of legal action.

15.2.2
Payment Deadlines

Academic Term	Payment Must Be Received No Later Than	Consequences if Payment Not Received by the Payment Deadline
2008 / 1 Summer Courses May – August	100% of Summer Fees (/1 courses) are due on May 31, 2008	A \$75 late payment fee will be charged; and monthly interest charges will be applied to unpaid Summer fees beginning May 31, 2008
2008 / 2 Fall Courses Sept. – Dec.	100% of Fall Fees (/2 courses) are due on September 30, 2008	A \$75 late payment fee will be charged; and monthly interest charges will be applied to unpaid Fall fees beginning September 30, 2008
2008 / 3 Fall/Winter Courses Sept. – April	50% of Fall/Winter Fees (/3 courses) are due on September 30, 2008	A \$75 late payment fee will be charged; and monthly interest charges will be applied to the unpaid Fall portion of fees beginning September 30, 2008
	Balance of Fall/Winter Fees (/3 courses) are due on January 31, 2009	A \$75 late payment fee will be charged; and monthly interest charges will be applied to the unpaid Fall portion of fees beginning January 31, 2009 Bar students from registering for future academic sessions until all overdue accounts are paid in full NOTE: The DNE deadline for /3 courses is September 16, 2008 and not January 19, 2009
2008 / 4 Winter Courses January – April	100% of Winter Fees (/4 courses) are due on January 31, 2009	A \$75 late payment fee will be charged; and monthly interest charges will be applied to the unpaid Fall portion of fees beginning January 31, 2009 Bar students from registering for future academic sessions until all overdue accounts are paid in full

15.3 TUITION REFUNDS (FINANCIAL CREDITS OR REFUNDS)

15.3.1
General Information

Withdrawal from a Course, Courses, or Program

In order to qualify for a rebate or financial credit of tuition, students must withdraw from courses or from the University in compliance with the requirements and withdrawal deadlines set out in the appropriate Undergraduate Class Schedule.

When a course is dropped within the deadline for official course withdrawal (DNE), a full refund (or financial credit) of tuition and other fees will be granted. When a course is not dropped on or before the DNE deadline, the student will be held financially responsible for all resulting tuition and other fees whether or not the student attended or stopped attending class. **No partial refunds (or financial**

credits) can be granted. In the event that a student has not yet made payment and withdraws after the DNE deadline, the student will be held financially responsible for the payment of the resulting fees.

Students must officially withdraw as follows:

- in writing (registered letter addressed to the Office of the Registrar), or
- via Web registration* (www.myconcordia.ca, or www.concordia.ca Quick Link to Registration), or
- in-person at the Birks Student Service Centre prior to the DNE deadline dates. Please contact the Office of the Registrar for more information regarding the procedure to officially withdraw from courses or from the University.

*When dropping courses on Web registration, students must make sure to confirm the transaction and/or verify their registration record to make sure that the course was indeed dropped.

Please note that not attending classes, not paying tuition, or simply informing the instructor of one's intent to withdraw does not constitute official withdrawal, nor does it entitle a student to a refund of fees, financial credit of fees, or cancellation of a registration.

Tuition Refunds on Discontinued (DISC) Courses

Students who withdraw (discontinue a course) after the DNE deadline, or are granted a **late academic withdrawal** (DISC) from a course, courses, or a program, do not qualify for a refund of tuition. Once a student has registered for one or more courses, they are **responsible for the payment** of all resulting fees.

Students who are granted late academic withdrawal from a course, courses, or a program after the deadline for academic withdrawal has passed, do not qualify for a refund of tuition.

In certain cases, students may apply to the *Tuition Refund Request Committee (TRRC)* for a full or partial refund of tuition fees for discontinued courses. An information brochure and application form can be obtained on the Concordia website at www.concordia.ca (Quick Link to the "Tuition and Fees" site). Students should read the application request carefully before making a submission. Requests that do not meet the criteria of the TRRC will be denied with no further explanation.

15.3.2 Withdrawal (DNE) Deadlines

Summer Session

Courses of at least three weeks duration: withdrawal within one week of the start of the term.

No refund or financial credit is granted after the deadline.

Courses of less than three weeks duration: withdrawal on or before the first day of the term.

No refund or financial credit is granted after the deadline.

Courses which begin in September (/2 and /3 courses)

Withdrawal on or before the Fall-term DNE deadline date — September 16, 2008: a full refund or financial credit. No refund or financial credit is granted after the deadline.

Courses which begin in January (/4 courses)

Withdrawal on or before the Winter-term DNE deadline date — January 19, 2009: a full refund or financial credit. No refund or financial credit is granted after the deadline.

N.B. Exact deadlines are also published in the Undergraduate Class Schedule.

15.3.3 Tuition Refund Request Committee

1. The Tuition Refund Request Committee (the Committee) considers requests from full-time or part-time students for exceptions to the rules governing the refund of tuition fees.
2. A refund request shall be made on a *Tuition Refund Request* form available on the Tuition and Fees website. A request with respect to a Fall-term course must be made no later than the following February 1; with respect to a Fall/Winter or Winter-term course, no later than the following June 15, and with respect to a Summer-term course, no later than the following October 1. These deadlines may be extended by the Committee in particular cases if the student can provide evidence that he or she was unable to have acted within the deadlines.
3. The Committee shall be composed of four members: a Chair appointed by the Provost, a representative from the Student Accounts Office, a representative from the Office of the Registrar, and a student representative.
4. The Committee shall render a decision, based on the written record only, normally within thirty (30) working days of receiving the request. The Committee may reject the request, grant a partial refund or a complete refund. No refunds may be granted unless the student has officially withdrawn from the course(s) in question. The decision of the Committee is final.

OFF-CAMPUS COURSES: Same schedule as on-campus courses.



academic information: definitions and regulations

16.1 GENERAL INFORMATION

- 16.1.1** Academic Year
- 16.1.2** Credit System
- 16.1.3** Residence Requirements
- 16.1.4** Registration for Courses
- 16.1.5** Cancellation of Classes
- 16.1.6** Withdrawal
- 16.1.7** Studies at Other Universities
- 16.1.8** Student Request Committees
- 16.1.9** Graduation
- 16.1.10** Student Record
- 16.1.11** Transcript

16.2 CURRICULUM REGULATIONS

- 16.2.1** Modifications to Academic Programs and Regulations
- 16.2.2** Degree Regulations
- 16.2.3** Concentration Requirements
- 16.2.4** University Writing Test

16.3 EVALUATION, GRADING SYSTEM, EXAMINATIONS, AND PERFORMANCE REQUIREMENTS

- 16.3.1** Evaluation
- 16.3.2** Language of Instruction and Examinations
- 16.3.3** Grading System
- 16.3.4** Failing Grades and Administrative Notations
- 16.3.5** Administrative Notations "DEF", "DISC", "DNE", "DNW", "INC", "MED", "PEND", "REPT"
- 16.3.6** Late Completion of Courses with "INC" Notations – Procedures and Regulations
- 16.3.7** In Progress "IP" Notations – Procedures and Regulations – Faculty of Arts and Science
- 16.3.8** Deferred "DEF", Medical "MED" Notations and Supplemental Examinations – Procedures and Regulations
- 16.3.9** Academic Re-evaluation
- 16.3.10** Examinations
- 16.3.11** Academic Performance
- 16.3.12** High Academic Achievement
- 16.3.13** Repetition of Courses

section 16



16

ACADEMIC INFORMATION: DEFINITIONS AND REGULATIONS

*Associate Vice-President, Enrolment and
Student Services*
ROGER CÔTÉ

University Registrar
LINDA HEALEY

*Associate Registrar and Director,
Enrolment Analysis/Process Control*
TERRY TOO

Assistant Registrar
ASSUNTA FARGNOLI

Director, Admission Services and Recruitment
SOPHIE FONTAINE

Director, Communication and Services to Students
DAVID GOBBY

*Director, Government Reporting, Statistics and
External Liaison*
BRUCE MACKENZIE

Supervisor - Birks Student Service Centre
LORRAINE TOSCANO

Supervisor - Records Management and Statistics
MARIE-CLAIRE NEWMAN

Supervisor - Registration and Examinations
LINDA HULL

16.1 General Information

The Calendar is an official University document defining academic programs and the regulations which pertain to them. It is accurate as of its printing date. The University Senate reserves the right to modify the academic programs and regulations at its discretion after the publication date of the Calendar. In addition, the University reserves the right to modify the published scale of tuition and other student fees at any time before the beginning of an academic term. The most current information is available from the Office of the Registrar and, for graduate programs, from the School of Graduate Studies. Moreover, the information contained in the Calendar or any other University document related to academic programs and regulations is subject to verification and correction by the Office of the Registrar and the School of Graduate Studies.

The regulations contained in this section apply to all students at the undergraduate level, whether they are enrolled in degree, Certificate, or qualifying programs or registered as Visiting or Independent students, with the following exceptions:

- Degree, Certificate, and qualifying program requirements are determined by those in effect in the year of the student's admission. (See §16.2)
- The regulations concerning Residence Requirements and Academic Performance Requirements are also governed by those in effect in the year of a student's admission.
- Determination of High Academic Achievement is governed by the most recent regulation in effect.

Students who were admitted before the current year should consult the appropriate Calendar and the Office of the Registrar or, for graduate programs, the School of Graduate Studies, for information on these regulations.

Specific written permission must be obtained from the appropriate authority for exemption from any academic regulation.

Students must have a valid I.D. card to access certain services.

16.1.1 Academic Year

The Academic Year begins with a Summer Session (May to August) followed by a Regular Session (September to April).

Summer Session:

The Summer Session includes all courses offered between the beginning of May and the end of August.

Regular Session:

The Regular Session is divided into a Fall Term (September-December) and a Winter Term (January – April), each 15 weeks long. Terms include an examination period, during which any final examination must be held. The Academic Calendar §11 lists precise dates for the beginning and end of classes and examination periods.

16.1.2 Credit System

In accordance with the recommendations of the Conseil des Universités du Québec, students' academic activity is measured according to the credit system. For the average student, each credit represents a minimum of 45 hours of academic activity, including lectures, tutorials, laboratories, studio or practice periods, examinations, and personal work.

I. FULL- AND PART-TIME STATUS

A student's status is determined by the number of credits for which she or he is registered at the close of the tuition refund period, in the following way:

	Full-Time*	Part-Time
Registration for both Fall and Winter terms	24 Credits or More	Less than 24 Credits
Registration for Fall Term Only	12 Credits or More	Less than 12 Credits
Registration for Winter Term Only	12 Credits or More	Less than 12 Credits
Registration for the Summer Session	12 Credits	Less than 12 Credits

*NOTE: Students receiving Quebec loans and bursaries are advised that, according to the rules established by the Government of Quebec, they must maintain registration of 12 credits or more each term. For further information, see Financial Aid §18.7.1.

II. CREDIT LOADS

Regular Session — Full-Time Status

Full-time students normally take 30 credits in each Regular Session. They may register for a maximum of 15 credits in each of the Fall and Winter terms. Engineering programs may require more than 30 credits. For information on Engineering credit loads, see §71.

Regular Session — Part-Time Status

Part-time students in all Faculties may register for a maximum of nine credits in each of the Fall and Winter terms.

Regular Session — Independent Status

Independent students may normally register for a maximum of nine credits in each of the Fall and Winter terms.

Summer Session

Any student, other than one in the Institute for Co-operative Education (§24) or the Faculty of Engineering and Computer Science (§71), may register for a maximum of 12 credits during the Summer Session.

16.1.3 Residence Requirements

Residence requirements define the number of credits which students working towards a Concordia University degree must take at the University itself.

1. Of the total number of credits required for an undergraduate degree, students must take a minimum of 45 credits, normally the last 45, at Concordia University. The BEng, the BA (Early Childhood and Elementary Education), the BEd (TESL), and the BFA (Art Education) require 60 credits, normally the last 60, at Concordia.
2. At least 50% of the credits for Honours, Specializations, Majors, Minors or other concentrations must be taken at Concordia. The BComm and BAdmin programs also require that at least 50% of the core courses be taken at Concordia.
3. Concordia University students who wish to include courses taken at another university within their residence requirements must obtain permission **in advance**. (See §16.1.7)
4. Students who already have an undergraduate degree may undertake a second undergraduate degree, subject to the conditions below. (Before registering, such students should consider whether their purpose might be better served by taking a graduate degree, diploma, or certificate program.) To obtain a second undergraduate degree, students must:
 - a) register in a program with a higher concentration than a Minor, and
 - b) complete at least two-thirds of the credits normally required for the second degree in courses other than those credited to the first degree — for example, a minimum of 60 credits must be completed when the normal requirement is 90 credits, and
 - c) complete at least 36 credits in the new field of concentration.
5. An exception to 4b) above, is the BEd in TESL, for which students must complete at least half of the 120 credits required for the second degree in courses other than those credited to the first degree.
6. Any student who is accepted at Concordia University after failing or compiling an unsatisfactory record at another university, will generally be required to complete at least 60 credits.

16.1.4
*Registration for
Courses*

Students select courses for each session (Summer and Fall/Winter) prior to the start of classes. All newly admitted students will receive registration information by mail; new Independent and Visiting students can obtain registration information at the Birks Student Service Centre; returning students in good standing can obtain registration information at www.myconcordia.ca. Most students will be able to register for all their courses online at www.myconcordia.ca.

16.1.5
*Cancellation of
Classes*

If no class cancellation notice is posted on the classroom door, classes are officially considered cancelled if an instructor is 15 minutes late for a 50-minute class, 20 minutes late for a 75-minute class, or 30 minutes late for longer classes.

16.1.6
Withdrawal

1. Withdrawal

Students who wish to withdraw from a course or courses must notify the Office of the Registrar. This can be done online at www.myconcordia.ca, in person at the Birks Student Service Centre, or by letter. (For their own protection, students should send such letters by registered mail or by fax.)

Students who wish to withdraw from the University completely must withdraw from all their courses and notify the Office of the Registrar in writing.

Withdrawal deadlines are listed in the Academic Calendar (§11) and in the appropriate Class Schedules. Rebates of tuition and other fees are only given for a limited time. (See §15)

The responsibility for taking all steps necessary to withdraw from courses is entirely the student's. Not attending classes or informing an instructor of an intent to withdraw does not constitute official withdrawal. An evaluation by the instructor of a student's progress is not mandatory prior to the withdrawal deadline. Students who do not properly withdraw before the specified deadlines will receive failing grades.

2. Lapsed Program Status

Students in the Faculty of Arts and Science who have been absent from their program for nine consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.

Students in the John Molson School of Business who have been absent from their program for six consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.

Students in the Faculty of Engineering and Computer Science who have been absent from their program for six consecutive terms or more will be withdrawn from their program and must submit a new application for admission through the Admissions Application Centre.

Students in the Faculty of Fine Arts who have a lapse in their program of study for nine consecutive terms or more will be withdrawn from their program and must meet with an academic advisor before reinstatement into the program.

16.1.7
*Studies at Other
Universities*

With the exceptions listed below, students who wish to take courses at other universities for transfer credit (for example, in the Summer) must obtain permission **in advance** from their Faculty Student Request Committee.

1. Inter-University Registration Within Quebec (Inter-University Agreement)

Quebec universities have agreed to permit students registered at one university (called the home university), to take one or more courses at another university (called the host university) if they have valid reasons for doing so.

A student must obtain authorization to cross-register from his or her academic advisor, the appropriate Associate/Vice-Dean or delegate of the student's Faculty, and the Registrar. Students must apply via a Web-based application at www.crepuq.qc.ca.

The host university has the right to refuse to register a student from another university in any of its courses or programs. Students are expected to follow the registration procedures of the host university and are subject to the regulations of the host university, except for tuition and fee policies which are governed by the home university. Fees are paid to the home university.

Credit earned at host universities counts towards Concordia residence and degree requirements.

The grades achieved at other institutions for courses taken under the Inter-University Agreement will be recorded on Concordia records and transcripts using a grade conversion table available at the following website: <http://registrar.concordia.ca>.

These grades will be included in the calculation of Grade Point Averages in the same manner as any grade achieved in a course taken at Concordia.

2. Student Exchange Programs

To enhance relationships between the people and cultures of different countries and to promote international education, Concordia International, in collaboration with the Faculties of Arts and Science, Engineering and Computer Science, Fine Arts, the John Molson School of Business, and the School of Graduate Studies, administers student exchange and internships with Concordia's partner

universities and other institutions of higher learning around the world. Participating students remain registered at Concordia University and spend from one term to one academic year taking courses, doing research, or participating in an internship program.

International exchange, internship, or study abroad opportunities are available to any Concordia University students who meet the following conditions:

- have successfully completed a minimum of 24 undergraduate or nine graduate Concordia University credits toward their degree by the time the exchange program begins;
- are in good academic standing and have a good to excellent academic record;
- have written permission of their Faculty.

In most cases, students should be comfortable in the language of the hosting university; however, an increasing number of courses given in English are available around the world. During an exchange term, students remain registered at Concordia University, are eligible for Concordia awards and financial aid, and pay tuition and related fees at home. All incidental fees including health insurance, living expenses, and transportation costs to and from the host country are the responsibility of the student.

The deadline for application is February 2. Details and updates can be found at <http://international.concordia.ca>.

Quebec Bursary for Studies Abroad / Programme de Bourses pour de Courts Séjours d'Études Universitaires à l'Extérieure du Québec

The *Programme de Bourses pour de Courts Séjours d'Études Universitaires à l'Extérieure du Québec* is a provincially funded program for Quebec resident students registered full-time in a Quebec university who wish to complete part of their program outside of Quebec. All students who are registered in a program leading to an undergraduate degree, graduate degree or graduate diploma may be eligible for funding under this program.

Eligibility: Students must be enrolled full-time at Concordia University, be in good academic standing, and have official Quebec residency status. They must be accepted for study or internship outside of Quebec for a minimum of eight weeks and a maximum of eight months. This includes Concordia courses taking place outside of Quebec.

The amounts permitted will vary according to the region and duration of the study period as follows:

- \$1,000 maximum/month for studies undertaken in the United States, Japan, Australia, New Zealand, and Western Europe;
- \$750 maximum/month for all other countries and other provinces in Canada.

Further information and application forms for international exchange, internships, and the Quebec Bursary for Studies Abroad are available from Concordia International: SGW Campus, 2080 Mackay, Annex X, tel.: 514-848-2424 ext. 4986, or e-mail: studyaway@concordia.ca. See <http://international.concordia.ca> for updates.

16.1.8 Student Request Committees

1. Student Request Committees consider applications from full-time or part-time students for exceptions to academic regulations or related matters, such as permission for course overloads, registration or withdrawals after the deadline, course substitutions, exceptions to residence requirements, and permission to take courses at other universities. Students shall submit applications to the Student Request Committee of the Faculty in which they are registered. Independent students shall submit applications to the Independent Student Request Committee.
2. A student request shall be made on a *Student Request* form available:
 - i) for students registered in the John Molson School of Business, the Faculty of Engineering and Computer Science, or the Faculty of Fine Arts — from the relevant Student Affairs Office;
 - ii) for students registered in the Faculty of Arts and Science — from the academic department housing the program in which they are registered;
 - iii) for Independent students — from the Birks Student Service Centre.
3. A student request shall be made within a reasonable period of time from the circumstances giving rise to the request. In determining whether the period of time elapsed is reasonable, all of the circumstances of the case shall be evaluated.
4. Each Faculty shall have a Student Request Committee composed of:
 - three faculty members appointed by the Faculty Council;
 - one representative appointed by the Registrar;
 - one student appointed by the Faculty Council;
 - the Associate/Vice-Dean who shall Chair the Student Request Committee.

The Independent Student Request Committee shall be composed of:

 - one representative appointed by each Faculty Council for a total of four representatives;
 - one representative appointed by the Director of the Centre for Mature Students;
 - one student appointed by the Concordia Student Union;
 - one representative appointed by the Registrar who shall Chair the Independent Student Request Committee.

5. A Student Request Committee may delegate the responsibility for handling certain kinds of requests to designated individuals (e.g. academic advisors, faculty advisors, student affairs coordinators). Where a decision is made by a delegated individual, the student may appeal that decision to the Student Request Committee, as a whole, based on new evidence or other serious grounds, by sending an appeal request, in writing, to the Chair of the Student Request Committee within ten (10) working days of receiving the decision.
6. In all cases, the delegated individual and/or the Student Request Committee shall render a reasoned written decision, based on the written record only, normally within thirty (30) working days of receiving the request. Decisions of the Student Request Committee are final, with the exception of decisions made on requests for withdrawals after the DNE deadline. All faculty recommendations supporting the DNE requests will be of an advisory nature and submitted to the Retroactive DNE Review Committee for the final determination.
7. The Retroactive DNE Review Committee will render a decision, based exclusively on the complete and documented written request, within fifteen (15) days of the reception of the recommendations from the Student Request Committee/Independent Student Request Committee.
8. The decisions of the Retroactive DNE Review Committee are final.

16.1.9
Graduation

Degree and Certificate candidates who expect to complete requirements in a particular year must submit Graduation Application Forms to the Office of the Registrar before July 15 for Fall graduation and before January 15 for Spring graduation. The forms are available at the Birks Student Service Centre. The graduation fee is payable whether or not a student attends Convocation.

16.1.10
Student Record

A record is a comprehensive report of a student's academic history at the University. It is a complete academic record and includes all courses followed at Concordia. It is available to the student and to authorized University staff and faculty. Students may obtain a copy of their record from the Birks Student Service Centre during normal operating hours or by written request. For each copy there is a charge of \$3. Students may also access their record through the Concordia website, www.myconcordia.ca, at no charge.

16.1.11
Transcript

A transcript is a version of a student's record intended for the use of external institutions, organizations, and employers. It is a complete academic record and includes all courses followed at Concordia. It is accompanied by an explanation of its terminology and is sent directly to the addressee at the written request of the student, providing there is no outstanding account owing to the University. An official transcript is printed on security paper, and is signed and sealed by the Registrar's representative.

16.2 Curriculum Regulations

16.2.1
Modifications to Academic Programs and Regulations

With the exception of the following conditions, the curriculum requirements in effect at the time students are admitted to a program (e.g. BA, BFA, Certificate in Business Studies) and/or concentration (e.g. Major, Specialization), are the requirements which apply to them until they complete their program.

1. The University reserves the right to modify academic program requirements in the light of (a) changing trends in academic and professional fields, and (b) the availability of resources. In the exceptional event that a program is substantially altered by the University Senate, the University recognizes its responsibility to offer suitable transition arrangements for students. The new program requirements should become effective for all students no later than five years after the effective date of change for newly admitted students.
2. When a program is discontinued, the University recognizes its responsibility to offer courses in the program while phasing it out according to a schedule appropriate to the needs of the affected students. Students will be informed of the schedule when the decision is made to phase the program out.
When students in a discontinued program have not been registered for three years, it may not be possible to enable them to complete that program. They may, however, transfer into another program in the University for which they meet the admission requirements.
3. Where students acquire credit towards a degree or Certificate in a discontinuous manner and over a protracted time, the University reserves the right, at any time, to require them to take further credits or fulfil additional requirements to obtain that degree or Certificate.
4. Modifications to the academic regulations in §16.1 and 16.3 become effective for all students on a given date regardless of the student's date of admission to a program, with the following exceptions:
 - 16.1.3 Residence Requirements
 - 16.3.11 Academic Performance Requirements
 - 16.3.12 High Academic Achievement

Modifications to these three regulations apply only to students admitted or readmitted to a program on or after the effective date of such modifications.

5. In the event a student is readmitted after failing an academic year, the University reserves the right to require the student to take additional credits or to repeat certain courses. The student is also subject to changes in academic regulations or program requirements in effect at the time of the student's readmission.
6. Notwithstanding the above, all students in Engineering programs are required to meet the Canadian Engineering Accreditation Board (CEAB) standards. Students are required to graduate having met the substantial equivalent of the curriculum in force in the Winter Term prior to degree conferral. It is the student's responsibility to ensure that their course selection meets the program requirements for their graduation. For further information, see §71.10.7.

16.2.2

Degree Regulations

The regulations relating to degree requirements are located in the Faculty sections:

Faculty of Arts & Science	Section 31
John Molson School of Business	Section 61
Faculty of Engineering & Computer Science	Section 71
Faculty of Fine Arts	Section 81

16.2.3

Concentration Requirements

Every undergraduate program requires a cohesive sequence of courses. To graduate in a degree program, a student must have completed one of the following concentrations: Honours, Specialization, Major. In the Faculty of Engineering and Computer Science, concentrations are referred to as Programs. Most of these Programs have Options, where students take a number of related courses in a chosen area. Honours is a highly concentrated program with a required performance level; the Specialization and the Major require varying degrees of concentration, normally without a performance requirement. An Honours, Specialization, or Major can be combined with a Minor. In some circumstances, a Double Major is also possible.

1. Honours Programs

The University offers programs leading to an Honours degree in certain disciplines. The Honours program consists of 60 or more credits in a discipline, with superior performance required to enter and remain in the program. In their first year, students may register in Honours program courses, but their acceptance as Honours students will depend on their performance. Students who do not meet requirements for Honours standing may proceed in either a Specialization or a Major program. These regulations are the minimum academic standards for Honours programs. The programs and particular Faculty regulations are listed in the Faculty sections under "Honours Programs".

1. An Honours student must meet general degree requirements and the specific requirements for an Honours program.
2. An Honours student must maintain a Grade Point Average (GPA) of 3.00 in all Honours courses; the minimum acceptable grade in any Honours course is "C".
3. An Honours student must have a minimum GPA of 2.70 for Honours courses taken each year. For part-time students this is calculated in 18-credit blocks.
4. In non-Honours courses, an Honours student must have a GPA of no less than 2.00.
5. Honours students who do not meet these standards will be withdrawn from the Honours program and will proceed in the Major or Specialization program. Reinstatement in the Honours program is possible only with the permission of the Faculty Honours Committee.

2. Specialization Programs

A Specialization, as recommended by the Conseil des Universités du Québec, is a sequence of courses totalling 60 or more credits. In a few cases it includes a performance requirement. In addition to courses in a particular discipline, the Specialization may include courses in other closely related fields.

3. Major Programs

A Major, as recommended by the Conseil des Universités du Québec, is a sequence of courses totalling 36 or more credits, except in the John Molson School of Business where the Major consists of at least 24 credits in a particular discipline in addition to the required 42-credit core. The Major may include certain courses in other closely related fields.

4. Minor Programs

A Minor, as recommended by the Conseil des Universités du Québec, is a sequence of courses totalling 24 or more credits, except in the John Molson School of Business where the Minor consists of at least 12 credits in the chosen discipline in addition to the required 42-credit core.

5. Combined Programs

An Honours, Specialization, or Major program may be combined with a Minor program. In some circumstances, a Major program may also be combined with another Major program.

6. Certificate Programs

An undergraduate Certificate is a coherent program, usually of 30 credits, made up of regular undergraduate courses. Courses taken as part of a Certificate program are normally applicable to the appropriate undergraduate degree. There is no guarantee that a Certificate program can be completed in one academic year.

16.2.4 University Writing Test

The Concordia University Writing Test (UWT) is an undergraduate degree requirement. It is not an exit examination. Students who fail to demonstrate sufficient fluency in their written expression will be assisted in improving their writing skills early in their programs so that the positive effects of competent written expression may be reflected in subsequent course work. Concordia University is committed to ensuring that its undergraduate students possess good writing skills.

NOTE: Independent students and students enrolled in Certificate programs are not subject to the writing skills requirement.

All students admitted to a program at Concordia University can meet the writing skills requirement in one of two ways:

1. Passing the University Writing Test (UWT)

Every student in an undergraduate degree program is required to demonstrate competence in writing English or French **before the completion of the first 30 credits of his or her program. Two attempts at passing the University Writing Test will be permitted, but both must be made before completing 30 credits. Should the second attempt result in a second failure, students must register for a writing course at the appropriate level.**

Registration for the appropriate level course must take place for the following term. Failure to do so may result in a delay in graduation.

Students who do not meet the requirement on the first attempt, but who wish to proceed directly to a writing course may do so following the next available registration period, and after consultation with the Department of English, the Département d'études françaises, or the Centre for Teaching English as a Second Language.

The UWT requires a short composition in English or French on the student's choice of one of several topics. The test is offered a number of times throughout the year. (Unsuccessful attempts do not appear on the student's record.) All newly admitted students, except those required to take JOUR 201 and those already registered for ENGL 212 or FRAN 400, should register for the first available test. Dates for the test and registration procedures are listed in §11 of this Calendar, at the Birks Student Service Centre (LB 185), and on the University Writing Test website at <http://Web2.concordia.ca/uwt>.

Students will be informed of their results in one of the following ways:

- a) Student records will be updated for those who pass the UWT to read, "Writing Skills Requirement Satisfied." Records may be accessed electronically from the University's Web site at www.concordia.ca.
- b) Notification of failure to meet UWT requirements will be sent by regular mail to inform students that they may take the test for a second, and final attempt, or register for an appropriate writing course after completing a placement test in either English or French. This notification letter will also direct students to the appropriate department for placement testing.

2. Passing ENGL 212 or FRAN 400 with "C-" or better*

If students fail the UWT or have not passed ENGL 212 or FRAN 400 with "C-" or better, they must take a placement test to determine their appropriate language level. Placement testing is conducted by the Centre for Teaching English as a Second Language, the Department of English, and the Département d'études françaises.

Depending upon the results of the placement test, students will either follow sequence (a) or sequence (b) noted below. Students may be exempted from one or more of the courses listed in the sequence but must complete the balance of the sequence in order to satisfy the University writing skills requirement.

- a) Passing ENGL 206 and ENGL 207, to be followed by passing ENGL 212 with a "C-" or better;
- b) Passing ESL 207, ESL 208, and ESL 209, to be followed by the sequence of courses offered by the Department of English, specifically ENGL 206 and ENGL 207, then passing ENGL 212 with a "C-" or better.

*Students in Journalism programs satisfy the requirement by achieving a grade of "C-" or better in JOUR 201.

*Students in Engineering and Computer Science who achieve a grade of C- or better in ENCS 272 or who have successfully passed its challenge exam shall be deemed to have satisfied the requirement.

16.3 Evaluation, Grading System, Examinations, and Performance Requirements

16.3.1 Evaluation

A university degree certifies that its holder has attained a measurable level of achievement as established by a recognized system of evaluation. Thus the performance of each student in each course must be evaluated by the instructor or instructors responsible for the course.

Final grades are determined by students' performance on one or more of the following:

1. Assigned work, term papers, projects, etc.
2. Class participation which, in certain disciplines, may justify an attendance requirement
3. Progress tests
4. Laboratory tests and/or laboratory work
5. Mid-term and/or final examinations
6. Level of written expression.

The weight accorded to the various elements is at the discretion of the instructor or instructors responsible for the course.

At the beginning of a course the instructor will provide students with the evaluation scheme in writing.

The scheme cannot be altered without appropriate notice.

Normally, an instructor will submit final grades no later than seven days after the scheduled final examination in a course or, where there is no final examination, seven days after the last scheduled class in a course. In the case of grades for potential graduates, instructors are required to submit grades no later than three days after the scheduled final examination in a course, or where there is no final examination, three days after the last scheduled class in a course. There may be additional delays before grades are posted as approvals of the grades and processing time are necessary. Students may obtain their grades through the Concordia website at www.myconcordia.ca.

Final grades and grade changes are official only when they have been approved by the appropriate Faculty Dean or delegate. The University reserves the right to make corrections at any time in case of error.

16.3.2 Language of Instruction and Examinations

While courses at Concordia University are normally taught in English, if students prefer, they may write assignments and examinations in either English or French. However, language and literature courses may require assignments and examinations to be written in the language being studied. Students who wish to write in French should ask at the beginning of a course whether their instructor can read French or whether someone else will evaluate their work. If the work must be read by another person, extra time may be needed.

16.3.3 Grading System

At the end of each course, the instructor will submit a letter grade for every student registered. Using the grade point equivalents listed below, Grade Point Averages (GPA) are calculated for the evaluation of academic achievement, Honours standing, prizes, and academic standing.

Grade	Grade Points	
A+ } A } A- }	4.30 } 4.00 } 3.70 }	Outstanding
B+ } B } B- }	3.30 } 3.00 } 2.70 }	Very Good
C+ } C } C- }	2.30 } 2.00 } 1.70 }	Satisfactory
D+ } D } D- }	1.30 } 1.00 } 0.70 }	Marginal Pass
F, FNS	0	Poor — Failure
R	0	Very Poor — Failure
Grade Not Reported (NR)	0	

Passing courses required to fulfil curriculum requirements is not sufficient to graduate as there is also an academic performance requirement (Grade Point Average) in most degree and certificate

programs. See the pertinent section of each Faculty's entry in the Calendar for complete details:

Faculty of Arts and Science	Section 31
John Molson School of Business	Section 61
Faculty of Engineering and Computer Science	Section 71
The Faculty of Fine Arts does not have a Grade Point Average requirement for graduation.	

16.3.4

Failing Grades and Administrative Notations

Failing Grades "F", "FNS", "R", and "NR" notations

1. "F" indicates failure in a course in which a supplemental examination is available.
2. "FNS" indicates failure in a course in which no supplemental examination is available.
3. In a course graded "R", a student is not permitted to write a supplemental examination, apply for a "MED" or "DEF" notation, or complete work late.
4. Not Reported "NR" indicates that a student appears to have unofficially withdrawn from a course. It is assigned by the Registrar when no material is available to evaluate and the instructor has been unable to submit a grade. "NR" carries a grade point value of zero and counts as a failure. In a course with an "NR", a student is not permitted to apply for a "MED" or "DEF" notation, write deferred or supplemental examinations, or complete work late.

16.3.5

Administrative Notations "DEF", "DISC", "DNE", "DNW", "INC", "MED", "PEND", "REPT"

1. Deferred "DEF" indicates that a student has been unable to write a final examination because of short-term illness or circumstances beyond the control of the student, or was obliged to be absent for some other compelling reason (including religious reasons). A "DEF" notation carries no grade point value.
For information on how to apply for "DEF" notations and the regulations which govern them, see §16.3.8 I.
2. Discontinued "DISC" indicates that a student has properly withdrawn from a course after the end of the course-change period. The notation appears permanently on academic records and official transcripts. It carries no grade point value and does not count in assessments of academic standing, but does count towards a student's status (i.e. full- and part-time).
3. Did Not Enter "DNE" is a temporary notation indicating that a student has officially withdrawn from a course by the deadline for withdrawal with tuition refund. The course and DNE notation are subsequently removed from a student's record.
4. Did Not Write "DNW" indicates that a student has not written the final examination for a course. The notation is used only in combination with a letter grade (such as "F/DNW", "B/DNW"). A student in good standing may write a supplemental examination (if available) in a course with a "DNW" unless the grade is "R/DNW" or "FNS/DNW".
For information on how to apply for supplemental examinations and the regulations which govern them, see §16.3.8 III.
5. Incomplete "INC" indicates that a student has not completed required course work, such as a term paper, assignment, or laboratory and that the instructor has agreed to accept the work after the due date. The notation is used only in combination with a letter grade (such as "F/INC", "C/INC") and is assigned on the basis that the missing work is weighted as zero.
When appropriate, "DNW" and "INC" can be used simultaneously (e.g. "F/INC/DNW").
For information on how to apply to complete courses with an "INC" notation, and the regulations which govern late completion, see §16.3.6.
6. Medical "MED" indicates that a student has been unable to write a final examination or complete other assignments due to a long-term medical situation. A "MED" notation carries no grade point value.
For information on how to apply for "MED" notations and the regulations which govern them, see §16.3.8 II.
7. Pending "PEND" indicates that the grade is not available at this time.
8. Repeat "REPT" indicates that the credit earned for this course cannot be retained because it is a repetition of a course or of similar course material.

16.3.6

Late Completion of Courses with "INC" Notations – Procedures and Regulations

1. The deadlines for completion of course assignments are given to students on the first day of class. The "INC" notation is assigned when an instructor has agreed that a student may complete work after the deadline.
2. A student with an "R" grade or "NR" notation in a course may not apply for late completion in that course.
3. Students must apply for late completion of a course. *Applications for Late Completion* are available at the Birks Student Service Centre. For each course there is a charge of \$15. Completed applications must be returned to the Birks Student Service Centre by:
February 1: Fall-term courses
May 15: Winter and Fall/Winter courses
September 1: Summer-session courses

4. The completed work must be submitted by:

February 15:	Fall-term courses
May 30:	Winter and Fall/Winter courses
September 15:	Summer-session courses
 5. It is the responsibility of the instructor to submit a final grade within five days of these dates.
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16.3.7
In Progress "IP"
Notations – Procedures
and Regulations –
Faculty of Arts and
Science

1. The IP notation is assigned when an instructor has agreed that the work of a student in a course may be submitted past the time for reporting grades. At the undergraduate level the IP notation is applicable only to the completion of an honours thesis, internship or field work outside of the University, or directed study or research. Students should refer to §31.003.3 for a list of applicable courses within the Faculty of Arts and Science. In all cases, due to third party involvement in course work, it is beyond the control of the instructor and/or the student for the student to complete the work within the required deadline.
 2. The completed work must be submitted by:

April 1:	Fall-term courses
August 1:	Winter and Fall/Winter courses
December 1:	Summer-session courses
 3. It is the responsibility of the instructor to submit a final grade within 10 days of these dates.
 4. If the completed work is not submitted by the stated deadline, the IP notation will be changed to a letter grade.
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16.3.8
Deferred "DEF",
Medical "MED"
Notations and
Supplemental
Examinations –
Procedures and
Regulations

- I. **Deferred "DEF" Notations**
 1. A student who has missed a final examination because of short-term illness; circumstances beyond his or her control; or who has been obliged to be absent for some other compelling reason (including religious reasons) can apply to have his or her original grade replaced by a temporary "DEF" notation. The original grade assigned must include a "DNW" notation.
 Note: Personal travel is not an acceptable reason to be granted a "DEF" notation.
 2. A "DEF" notation cannot be assigned in a course with an "R" or "NR" notation.
 3. Application forms for "DEF" notations are available from the Birks Student Service Centre.
A completed application must be submitted to the Birks Student Service Centre, not to the instructor, Department, or Faculty, by January 15 for Fall courses (/2), May 15 for Fall/Winter courses (/3 and /4) or August 31 for Summer courses (/1). The application should be accompanied by a medical certificate on a physician's original letterhead for medical situations or, if the reasons are not medical, by other appropriate documents indicating that the student was unable to write an examination on the day or days in question. If the required documentation is not available before the application deadline, the student should submit the request form and provide the supporting material as soon as possible.
 4. The application for a "DEF" notation must be accompanied by a \$15 per course processing fee.
 5. The Registration and Examinations Office is entitled to ask the student to provide additional medical information.
 6. When the Registration and Examinations Office approves the awarding of the "DEF" notation, it will temporarily replace the student's original grade for the course or courses concerned. The student is then entitled to write a deferred examination. For information about deferred examinations, see §16.3.10 II.
 7. When the deferred examination has been completed and evaluated, a new grade will replace the "DEF" notation.
 8. When a student receiving the privilege of writing a deferred examination does not write the examination during the specified period, the privilege will be withdrawn and a final grade in the course will be recorded by the Office of the Registrar according to the grade achieved by the student before the "DEF" notation was granted.
 9. When a student repeatedly submits medical certificates, the University reserves the right to refer him or her to a physician appointed by the University for a recommendation.
- II. **Medical "MED" Notations**
 1. A student who has missed a final examination and/or been unable to complete course assignments due to a long-term medical situation can apply to have his or her original grade replaced by a "MED" notation. The original grade must include the "DNW" notation for a missed final examination; "INC" for course assignments not completed; "DNW/INC" when both elements are missing.
 2. A "MED" notation cannot be assigned in a course with an "R" grade or "NR" notation.
 3. Application forms for "MED" notations are available from the Birks Student Service Centre.
A completed application should be submitted to the Birks Student Service Centre, not to the instructor, Department, or Faculty, by January 15 for Fall courses (/2), May 15 for Fall/Winter courses (/3 and /4), or August 31 for Summer courses (/1). The application should be accompanied by a medical certificate on a physician's original letterhead indicating that a long-term medical situation prohibited the student from being able to complete the final exam-

ination on the day or days in question. If the required documentation is not available before the application deadline, the student should submit the request form and provide the supporting material as soon as possible.

4. The application for a "MED" notation must be accompanied by a \$15 per course processing fee.
5. The Registration and Examinations Office is entitled to ask the student to provide additional medical information.
6. When the Registration and Examinations Office approves the acceptance of a medical certificate, the notation "MED" will replace the student's original grade for the course or courses concerned. For information about "MED" replacement examinations, see §16.3.10 II.
7. When the replacement examination or missing work has been completed and evaluated, a new grade will replace the "MED" notation. If the student does not write a replacement examination or complete the missing work, the "MED" notation will appear permanently on his or her record and transcript (e.g. "MED/DNW" or "MED/INC"). "MED" notations carry no grade point value. Courses with "MED" notations are not included in assessments of academic standing.
8. When a student repeatedly submits medical certificates, the University reserves the right to refer him or her to a physician appointed by the University for a recommendation.

III. Supplemental Examinations – Regulations

1. Each Faculty determines for which of its courses a supplemental examination is offered.
2. A student must be in acceptable standing in order to write a supplemental examination.
3. A student is permitted to write only one supplemental examination for a course, whether or not the course is being repeated.
4. A student who has received a passing grade for a course may not write a supplemental examination for that course.
5. A student who has received an "NR" or "R" grade may not write a supplemental examination for that course.
6. Applications to write supplemental examinations are available from the Birks Student Service Centre. **A completed application should be submitted to the Birks Student Service Centre, not to the instructor, Department, or Faculty**, by June 15 for Fall/Winter courses (/2, /3 and /4), September 16 for Summer courses (/1) or February 1 for Graduating students (Fall-term courses [/2] only).
7. The application for a supplemental examination must be accompanied by a \$25 fee for each course. The supplemental fee is refundable only if the student is denied permission to write the supplemental.

16.3.9 Academic Re-evaluation

I. General

1. Concordia University affirms the right of students to request the re-evaluation of course work which includes tests, examinations, essays and other work that has contributed to the grading of a course. It is assumed that initiating a formal re-evaluation ("a re-evaluation request") is a last recourse, taken when prior and sincere attempts to resolve problems and disagreements informally and directly have failed.
2. Students have the right to see their course work. Students are responsible for the preservation of any material, in its entire and original form, which has been returned to them. A re-evaluation request may be refused if this material is not available.
3. Instructors are responsible for the preservation of course work that has not been returned to students as follows: until December 31 of the next calendar year for Fall-term courses; until April 30 of the next calendar year for Fall/Winter and Winter-term courses; and until August 31 of the next calendar year for Summer-term courses.
4. In cases where grades are received for activities other than written or artistic course work, such as class participation, oral presentations, oral examinations and performance, no re-evaluation is normally possible. However, every attempt shall be made by the instructor concerned and the Chair of the Department to address the concerns raised by the student.
5. The grounds for a re-evaluation request are restricted to claims that i) a miscalculation of the grade occurred; or ii) the evaluation of the work was demonstrably unfair.
6. A grade may be maintained, raised or lowered as a result of a re-evaluation request.

II. Procedure

7. Students who are dissatisfied with the grade received on one or more pieces of course work shall first attempt to meet with the instructor and explain their position. If the student remains dissatisfied or is unable to meet with the instructor, he or she may, upon receiving the final grade for the course, make a re-evaluation request.
8. A re-evaluation request shall be made on an "Academic Re-evaluation Request" form available at the Birks Student Service Centre. The student shall specify the reasons for seeking the re-evaluation and shall indicate what informal attempts towards re-evaluation have been made. A processing fee must accompany the request. (See the Tuition and Fees section of this Calendar for the current fee).

9. A re-evaluation request with respect to a Fall-term course must be made no later than the following February 1; with respect to a Fall/Winter or Winter-term course, no later than the following June 15 and with respect to a Summer-term course, no later than the following October 1. These deadlines may be extended by the Registrar in particular cases if the student can provide evidence that he or she was unable to have acted within the deadlines.
10. The Registrar shall forward the re-evaluation request to the Chair of the appropriate Department.
11. The Chair shall decide whether the re-evaluation request conforms to the criteria outlined in articles 4 and 5 above within ten (10) days of receiving the re-evaluation request.
12. If the Chair decides that the re-evaluation request does not conform to the criteria outlined in articles 4 and 5 above, he or she shall communicate this decision with reasons, in writing, to the student with a copy to the Registrar. Should the student disagree with this decision, he or she has the right to appeal the Chair's decision to Re-evaluation Appeals Panel as set out in article 25 below.
13. Requests for review or other consideration which do not conform to the grounds for a re-evaluation request may fall under the purview of the Chair, the Dean, the Student Request Committee or other mechanisms.
14. If the Chair decides that the re-evaluation request conforms to the criteria outlined in articles 4 and 5 above, he or she shall appoint a re-evaluator whose name shall be communicated to the student and to the instructor concerned. Normally, the re-evaluator shall not be an instructor in whose course the student is registered at that time.
15. Before the re-evaluation begins, the instructor shall provide the Chair with information regarding the nature and structure of the course as well as the evaluation criteria and methods used. The Chair shall communicate this information to the re-evaluator.
16. **The entire piece of work identified by the student shall be re-evaluated. The re-evaluator may request additional input from the student or the instructor.**
17. The re-evaluation shall normally be completed within thirty (30) days of the Chair's decision that the re-evaluation shall proceed. If it becomes clear that the thirty (30) day delay cannot be met, the Chair shall immediately communicate this information to the student in order to determine **whether any serious difficulties may arise from extending the delay.**
In the case where the thirty (30) day delay is extended, every effort shall be made to remedy any academic disadvantage that the student may experience as a consequence of the extension of the delay.
18. Upon completion of the re-evaluation, the re-evaluator shall assign a grade to the work in question and shall forward the re-evaluated material to the Chair along with a reasoned report. The reasoned report shall make mention of the documentation and methodology used. The Chair shall communicate the re-evaluation decision, in writing, along with the reasoned report, to the student, the instructor and the Registrar, as well as whether the final grade for the course will be modified as a result of the re-evaluation decision.
19. In cases where there is a significant discrepancy between the original grade assigned and the grade assigned by the re-evaluator, the Chair may convene a meeting with the instructor and the re-evaluator in order to discuss the issue before communicating the decision to the parties concerned. If disagreement as to the discrepancy remains after the meeting, the re-evaluator's grade shall stand.
20. In cases where the re-evaluation decision reveals a generalized flaw in the original evaluation process, the Chair shall take appropriate steps to ensure that the grades of other students in the course are reviewed and modified if appropriate.
21. A final grade that is modified as a result of the re-evaluation shall be entered onto the student's academic record and transcript. If no appeal is filed, the modified grade shall permanently replace the original grade on the student's academic record and transcript. If an appeal is filed, an interim notation to the effect that the grade is "under appeal" shall accompany the grade until the final disposition of the case.

III. Appeals

22. A permanent Secretary of the Re-evaluation Appeals Panel (RAP) (the Secretary) shall be appointed by the Secretary-General. The Secretary shall be responsible for the administrative functioning of the RAP and shall maintain the confidential files of the RAP.
23. A RAP of three (3) members, as well as a non-voting Chair, shall be selected by the Secretary for a given appeal. The RAP shall be composed of two (2) faculty members drawn from the Faculty Tribunal Pool and one (1) student drawn from the Student Tribunal Pool as provided for under the Policy for the Establishment of Tribunal Hearing Pools. Every attempt will be made to select the student member from the student's constituency (undergraduate or graduate status).
24. A student or instructor may appeal a re-evaluation decision based on either substantive grounds or on the presence of serious and prejudicial procedural defects. In the case of an appeal from an instructor, "prejudicial" shall be limited to the effect that the alleged procedural defect has on other students in the course or on the academic standards of the University. The appeal must

state in clear and precise terms the grounds on which the appeal is based. Such an appeal must be made, in writing, to the Secretary within fifteen (15) days after the date of transmission of the re-evaluation decision.

25. A student may appeal a Chair's decision that the re-evaluation request did not conform to the criteria outlined in articles 4 and 5 above. This appeal may be based on either substantive grounds or on the presence of serious and prejudicial procedural defects in the Chair's consideration of the re-evaluation request. The appeal must state in clear and precise terms the grounds on which the appeal is based. Such an appeal must be made, in writing, to the Secretary within fifteen (15) days after the date of transmission of the Chair's decision.
26. Upon receipt of an appeal from a student, the Secretary shall send a copy to the Registrar, the Chair, the instructor and the re-evaluator, if appropriate, soliciting their input within ten (10) days. Any input received within the ten (10) day period shall be forwarded to all parties, soliciting their comments on the input within a further ten (10) days. All input and comments received within the twenty (20) day period shall form part of the dossier submitted to the RAP.
Upon receipt of an appeal from an instructor, the Secretary shall send a copy to the Registrar, the Chair, the student and the re-evaluator, if appropriate, soliciting their input within ten (10) days. Any input received within the ten (10) day period shall be forwarded to all parties, soliciting their comments on the input within a further ten (10) days. All input and comments received within the twenty (20) day period shall form part of the dossier submitted to the RAP.
27. The RAP shall render a decision, based on the written record only, normally within thirty (30) days of the filing of an appeal. The RAP shall meet at least once in person before rendering its reasoned decision.
28. In the case of an appeal of a re-evaluation decision, should the RAP determine that serious and prejudicial procedural defects were present in the re-evaluation process or that there are substantive grounds necessitating a new re-evaluation, it shall instruct the Chair to arrange for a new re-evaluation.
29. Should the RAP decide that an appeal be upheld in the case of an appeal of a Chair's decision that the re-evaluation request did not conform to the criteria outlined in articles 4 and 5 above, it shall instruct the Dean to arrange for a re-evaluation independent of the relevant Chair.
30. The RAP shall communicate its signed, dated and reasoned decision to the student, the instructor, the re-evaluator (if appropriate), the Chair and the Registrar and shall include copies of all documentation considered.
31. The decision of the RAP is final.

IV. Miscellaneous Provisions

32. The word "days" is defined as working days which excludes weekends, holidays and other days during which the University is closed.
In the calculation of any delay set out in these procedures, the months of July and August shall not be taken into account. In the case of an appeal submitted to the RAP before July 1, the regular delays set out in these procedures shall apply.
33. Any written notice addressed to a student pursuant to Section III – Appeals under these procedures shall be sent by courier to the last address provided by the student to the University and shall be deemed to be received one (1) day after delivery.
34. If the course in question was taught by the Chair, the Dean shall assume all of the duties imposed on the Chair in these procedures. If the course in question does not form part of a department, the re-evaluation request shall be forwarded to the appropriate administrator responsible for the course.
35. The overall responsibility for the implementation and recommended amendments to these procedures shall rest with the Provost and Vice-President.

16.3.10 Examinations

Students must present identification in order to write any examination. Acceptable identification is: Concordia student I.D. card; photo- and signature-bearing Medicare card or driver's license. Unless expressly permitted by the instructor, the possession of electronic communication devices is prohibited during examinations.

I. Final Examinations

1. Academic Calendar §11 lists the official examination periods.
2. Examination schedules are posted outside H 110 (SGW Campus) and CC 214 (LOY Campus); on kiosks throughout the campuses; or through the Concordia website at www.myconcordia.ca.
3. Since special arrangements cannot be made in the event of personal time conflicts (including personal travel plans), students should not make commitments for the examination periods until after the final schedule is posted. Nonetheless, in certain circumstances, a student who will not be in the Montreal area during the official final examination period can request to write his/her examination at another university or college.

A student who wishes to write at an external institution must submit a "Request to Write a Concordia University Exam at an External Institution" available from the Birks Student Service Centre. The completed request should be submitted to the Birks Student Service Centre within the following deadlines:

November 15: for December final examination period
April 1: for April-May final examination period
June 1: for June final examination period
August 1: for August final and replacement/supplemental examination period
Two weeks: prior to the date of the University Writing Test

The request must be accompanied by a \$10 per course processing fee.

Among the factors considered in the review of the request is the suitability of the testing location, testing conditions, and time constraints. The institution chosen must be an accredited university or college and the proctor/invigilator must be an employee of that institution and must agree to administer the exam(s) at the exact same date and time as scheduled at Concordia University and time differences must be taken into account.

The student is responsible for any fees that may be charged by the external institution.

4. An examination "conflict" is defined as two examinations scheduled at the exact same day and time or three examinations scheduled in consecutive time blocks (9:00-12:00, 14:00-17:00, 19:00-22:00; 14:00-17:00, 19:00-22:00, 9:00-12:00; 19:00-22:00, 9:00-12:00, 14:00-17:00). Two examinations in one day or three examinations in 24 hours are not considered a "conflict". When the final examination schedule indicates that a student has a "conflict" as defined above, information on how to resolve the conflict is available on the kiosks located throughout the campuses; or through the Concordia website at www.myconcordia.ca.

The Registration and Examinations Office will make every effort to resolve the "conflict" by providing an "alternate" examination provided they are advised of the conflict by the deadline. "Alternates" are usually scheduled for the first Sunday immediately following the original examination date.

Students who cannot write an examination due to work commitments or religious observations may also request permission to write an "alternate" by reporting their conflict and providing the appropriate documentation in support of their request. Further information is available by contacting the Registration and Examinations Office.

5. No student will be admitted to the exam room if his/her name does not appear on the roster of students assigned to write in that room.
6. No candidate will be permitted to enter an examination room after the first third of the examination has elapsed, or to leave before the first third of the examination has elapsed:
3 hour examination: no entry after first 60 minutes has elapsed; no exit before first 60 minutes has elapsed
2.5 hour examination: no entry after first 50 minutes has elapsed; no exit before first 50 minutes has elapsed
2 hour examination: no entry after first 40 minutes has elapsed; no exit before first 40 minutes has elapsed
1.5 hour examination: no entry after first 30 minutes has elapsed; no exit before first 30 minutes has elapsed
1 hour examination: no entry after first 20 minutes has elapsed; no exit before first 20 minutes has elapsed
7. Students will be assigned to a specific desk/seat location.
8. Student I.D. cards will be collected at the time of "signing-in" and will be returned when "signing-out".
9. Students may not leave the exam room during the last 15 minutes.
10. **If during the course of an examination a student becomes ill, the student should report at once to the invigilator, hand in the unfinished paper and request that the examination be cancelled. Before leaving the University, the student must also visit the Temporary Examinations Office location in order that a report of the situation may be filed. If physical and/or emotional ill-health is the cause, the student must then report at once to a physician/ counsellor so that subsequent application for a deferred examination is supported by medical documentation.**
11. If a student completes an examination, even though he/she is ill or faced with other personal problems or situations, the subsequent grade obtained in the course must stand. Petitions on the grounds of illness **will not be considered**.
12. In the Fall and Winter terms, no tests or examinations are permitted in the final week of classes. Any exceptions must be approved in advance by the appropriate Faculty Council.

II. Deferred, Replacement and Supplemental Examinations – Regulations

1. Deferred Examinations

- a) A student who did not write a final examination and has been granted a "DEF" notation is permitted to write a deferred examination.
- b) A deferred examination counts for the same weight in the course evaluation scheme and covers the same course material as the original examination.

- c) A student who does not write a deferred examination for medical or other valid reasons as identified in §16.3.8 may apply to write another deferred examination within the following deadlines:
 January 15: for deferred examinations missed in October or December
 May 15: for deferred examinations missed in February or April
 August 31: for deferred examinations missed in June or August
- d) A student who does not write either of the two scheduled deferred examinations for the same course for medical or other serious reasons, must repeat the course to obtain credit. Such students are not eligible to write a supplemental examination.
- e) When a student does not write a deferred examination without acceptable medical or other valid reasons, no further examination, deferred or supplemental, will be scheduled.
- f) When a deferred examination is not written, the original grade assigned in the course prior to the granting of the "DEF" notation will be re-instated on the student record and transcript.
- g) When a deferred examination has been written and evaluated, the mark is added to the student's marks for other course work. The resulting final grade will replace the "DEF" notation on the student's academic record and transcript.
- h) A student who fails a course after writing a deferred examination may have one opportunity to write a supplemental examination during the next scheduled supplemental examination period provided the original grade was not "FNS" and all other criteria for writing a supplemental have been met (see §16.3.8 III).
- i) A student cannot write a deferred examination in a course with a grade of "R" or "NR".

2. Replacement Examinations

- a) A student who did not write a final examination and has been granted a "MED" notation is permitted to write a replacement examination.
- b) A replacement examination counts for the same weight in the course evaluation scheme and covers the same course material as the original examination.
- c) A student who does not write a replacement examination for medical or other valid reasons may apply to write another replacement examination within the following deadlines:
 January 15: for replacement examinations missed in October or December
 May 15: for replacement examinations missed in February or April
 August 31: for replacement examinations missed in June or August
- d) A student who does not write either of the two scheduled replacement examinations for the same course for medical or other serious reasons, must repeat the course to obtain credit. Such students are not eligible to write a supplemental examination.
- e) When a student does not write a replacement examination without acceptable medical or other valid reasons, no further examination, replacement or supplemental, will be scheduled.
- f) When a replacement examination is not written, the "MED" notation (e.g. "MED/DNW") will appear permanently on the student record and transcript.
- g) When a replacement examination has been written and evaluated, the mark is added to the student's marks for other course work. The resulting final grade will replace the "MED" notation on the student's academic record and transcript.
- h) A student who fails a course after writing a replacement examination, may have one opportunity to write a supplemental examination during the next scheduled supplemental examination period provided the original grade was not "FNS" and all other criteria for writing a supplemental have been met (see §16.3.8 III).
- i) A student cannot write a replacement examination in a course with a grade of "R" or "NR".

3. Supplemental Examinations

- a) A student who applies for and satisfies all the requirements is permitted to write a supplemental examination.
- b) Whether or not a supplemental examination is written, the original grade for the course ("F", "F/DNW") will remain permanently on the student's academic record and transcript.
- c) The grade for a supplemental examination is counted as a second attempt at the course. The grades from both attempts are included in calculating Grade Point Averages and assessments of academic standing.
- d) A student who fails a supplemental examination is given a grade of "R". A student who does not write a supplemental examination is not assigned a second failing grade for the course.
- e) A student who does not write a supplemental examination for medical, or other serious reasons, may re-apply to write the supplemental examination for that course during the next scheduled supplemental examination period. The deadline dates are as follows:
 January 15: for supplemental examinations missed in October
 May 15: for supplemental examinations missed in February
 August 31: for supplemental examinations missed in August
 A student who does not write either of these supplemental examinations for medical or other serious reasons, must repeat the course to obtain credit.

- f) John Molson School of Business and the Faculty of Engineering and Computer Science: There are no supplemental examinations available for courses offered in these Faculties, other than for COMP 201 and COMP 218.

III. Deferred, Replacement and Supplemental Examination Periods

Deferred, replacement and supplemental examinations are written at various times throughout the year.

1. Deferred/Replacement Examinations

- a) John Molson School of Business and Faculty of Engineering and Computer Science: Deferred examinations for courses offered in these Faculties are written the next time the course is offered. For potential graduates in Engineering and Computer Science, if there is no examination scheduled for the course in question in the semester before graduation, a deferred examination would be made available during the final examination period of that semester.
- b) Faculties of Arts and Science, Fine Arts: Deferred examinations for courses in these Faculties are written during the next regular examination period **provided** the course is given in the next semester **and that a final examination is scheduled**. If the course is not offered or there is no examination scheduled for the course in question in the subsequent examination cycle, the deferred examination would be scheduled during the next replacement examination period (February [mid-term break], August, October).

2. Supplemental Examinations

- a) John Molson School of Business and Faculty of Engineering and Computer Science: There are no supplemental examinations available for courses offered in these Faculties, other than for COMP 201 and COMP 218.
- b) Faculties of Arts and Science, Fine Arts: Supplemental examinations for Fall/Winter courses (/2, /3, and /4) are normally written in late August. For Summer session courses (/1) supplemental examinations are usually written in October. Graduating students may write supplemental examinations in February for Fall courses (/2) only.

3. In certain circumstances, a student who will not be in the Montreal area during **the deferred, replacement or supplemental examination period** can request to write his/her examination at another university or college. For information on writing examinations at an external institution, see §16.3.10.I.

16.3.11 Academic Performance

I. Performance Regulations

Students are required to maintain an acceptable standard of scholarship. Each student's academic standing is assessed at the end of every year, either on the basis of an Annual Weighted Grade Point Average (WGPA) as defined below, or for students in the Faculty of Fine Arts, on the basis of the ratio of credits failed to credits passed.

The specific regulations applicable to students registered in each Faculty can be found in the following sections of the Calendar:

<u>Faculty</u>	<u>See Calendar Section</u>	<u>System Used</u>
Faculty of Arts and Science	31.003.1	WGPA
John Molson School of Business	61.22.1	WGPA
Faculty of Engineering and Computer Science	71.10.3	WGPA
Faculty of Fine Arts	81.20.4	WGPA

These regulations may be modified in the case of students transferring either between Faculties or from another university.

II. Weighted Grade Point Average

a) Annual Grade Point Average

An Annual Weighted Grade Point Average (WGPA) for each student is calculated at the end of each academic year (including the Summer, Fall and Winter terms), provided that the student has attempted a minimum of 12 credits. If the student has attempted fewer than 12 credits, these credits will be included in the assessment for the following academic year.

When a student transfers from one degree or certificate to another degree or certificate, the WGPA is calculated only for courses recorded in the current degree or certificate. Special regulations for graduating students may be specified in each Faculty's regulations.

Grades for supplemental and replacement examinations and for late completion of courses with "INC" or "MED" notations are included in the assessment period in which they are recorded.

In the case of courses taken more than once in the same assessment period, only the grade corresponding to the latest attempt of the course will be used in the calculation of the Annual WGPA. In the Faculty of Engineering and Computer Science, prerequisite courses required for admission to a program will not be counted unless they are specifically listed on the student's acceptance letter. A grade obtained as the result of a penalty for academic misconduct will remain in the calculation of the Annual WGPA whether or not the course has been repeated.

The WGPA is calculated as follows:

First, for each course attempted, the number of credits for the course is multiplied by the grade points obtained for the course, as specified in §16.3.3. Then, the sum of the grade points for all courses is divided by the total credits attempted.

$$\text{WGPA} = \frac{\sum (\text{course credits} \times \text{grade points})}{\sum (\text{credits attempted})}$$

Σ = sum of

Example:

Course	Grade Achieved	Credit Value		Grade Points*	Weighted Grade Points
1	D	3.00	X	1.00	= 3.00
2	C+	3.00	X	2.30	= 6.90
3	B	2.00	X	3.00	= 6.00
4	A-	6.00	X	3.70	= 22.20
5	F	3.00	X	0.00	= 0.00
		Total Credits Attempted	17.00	Total Weighted Grade Points	38.10

$$\text{WGPA} = \frac{38.10}{17.00} = 2.24$$

* As detailed in §16.3.3

b) Cumulative Grade Point Average

This is the running total of the GPA since a student was admitted to the most recent degree (or certificate) program. It includes the same courses as were included in the calculation of the Annual Weighted Grade Point Average, but it does not include the grade point weighting of courses which were completed in an earlier program, for which "transfer credit" has been awarded in the new program. In the case of repeated courses, only the grade corresponding to the latest attempt of the course will be used in the calculation of the Cumulative GPA.

A grade obtained as the result of a penalty for academic misconduct will remain in the calculation of the Cumulative GPA whether or not the course has been repeated.

c) Final Graduation Grade Point Average

This is a cumulative GPA of all courses applicable to the new degree program being completed to which special rules apply. For example, additional credits in extended programs are not normally included in any calculation, and repeated courses and transferred courses are treated differently than they are in the Annual or Cumulative GPA calculations. In the case of transfer students, all courses taken at Concordia will be included in calculating the Graduation GPA, except in the Faculty of Engineering and Computer Science, where only courses which are part of the degree program are taken into account. This GPA is calculated and recorded on the record only when a student graduates.

In the case of repeated courses, only the grade corresponding to the latest attempt of the course will be used in the calculation of the Graduation GPA.

A grade obtained as the result of a penalty for academic misconduct will remain in the calculation of the Graduation GPA whether or not the course has been repeated.

The Final Graduation GPA is used as the basis to determine eligibility for High Academic Achievement (§16.3.12).

III. Qualifying Programs and Visiting Students

Students registered in Qualifying Programs or as Visiting students are subject to the regulations of the Faculty in which they are registered.

IV. Independent Students

1. Independent students are subject to the same Grade Point Average requirements as students registered in programs offered by the Faculty of Arts and Science. (See §31.003.1)
2. Independent students who are classified as failed may not re-register without permission of the Registrar.

V. Regulations for Failed Students and Students in Conditional Standing

1. Failed students or students in conditional standing are not eligible to write supplemental examinations.
2. Undergraduate students who are classified as failed may not re-register as Independent students.

VI. Recording of Failed and Conditional Standing

Failed standing is noted on the student's academic record and transcript. In the event that a student is subsequently readmitted, previous failed standing will appear only on the record. Conditional standing is noted on records only.

16.3.12
*High Academic
Achievement*

A degree "With Distinction" or "With Great Distinction" will be awarded to students who obtain Graduation Grade Point Averages (GGPA) of at least 3.40 or 4.00 respectively. The Graduation Grade Point Average is calculated over courses taken in the regular program, as determined by guidelines of the Office of the Registrar. Additional credits in extended programs are not normally included in any calculation. In the case of transfer students, all courses taken at Concordia will be included in calculating the Graduation GPA.

16.3.13
Repetition of Courses

1. In general, a student may repeat a failed course only once. However, a student who fails a required course twice may appeal to the appropriate Student Request Committee for permission to take the course a third time or for permission to replace the course with another. Unless permission is granted, the student will not be allowed to continue in the University towards that program and/or degree.
 2. A student who has received a passing grade for a course may repeat the course for personal reasons (e.g. to meet an external requirement). The student's record and transcript will include both grades but the second grade with the "REPT" notation will carry no credit value.
 3. The grade corresponding to the latest attempt of the course will be used for calculating the Cumulative GPA and the Graduation GPA.
 4. In the case of courses taken more than once in the same assessment period, only the grade corresponding to the latest attempt of the course will be used in the calculation of the Annual WGPA.
 5. A grade obtained as the result of a penalty for academic misconduct will remain in the calculation of the Annual WGPA, the Cumulative GPA, and the Graduation GPA whether or not the course has been repeated.
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17.10 academic integrity and the academic code of conduct

- 17.10.1 *ACADEMIC INTEGRITY*
- 17.10.2 *UNDERSTANDING AND UPHOLDING ACADEMIC INTEGRITY*
- 17.10.3 *ACADEMIC CODE OF CONDUCT*

17.20 policy on the establishment of tribunal hearing pools

17.30 rights and responsibilities

17.40 ombuds office

section 17



17.10

ACADEMIC INTEGRITY AND THE ACADEMIC CODE OF CONDUCT

17.10.1 ACADEMIC INTEGRITY

Academic integrity is key to academic success at Concordia University. More specifically, "The integrity of University academic life and of the degrees, diplomas and certificates the University confers is dependent upon the honesty and soundness of the instructor-student learning relationship and, in particular, that of the evaluation process. Therefore, for their part, all students are expected to be honest in all of their academic endeavours and relationships with the University." (Academic Code of Conduct, article 1)

17.10.2 UNDERSTANDING AND UPHOLDING ACADEMIC INTEGRITY

Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: <http://www.concordia.ca/academicintegrity>. The definitions, procedures, and sanctions related to charges of academic offences are outlined in the Academic Code of Conduct.

17.10.3 ACADEMIC CODE OF CONDUCT

I. Preamble

Introduction

1. The integrity of University academic life and of the degrees, diplomas and certificates the University confers is dependent upon the honesty and soundness of the instructor-student learning relationship and, in particular, that of the evaluation process. Therefore, for their part, all students are expected to be honest in all of their academic endeavours and relationships with the University.

Jurisdiction

2. For the purposes of this Code, the student need only have been a student at the time of the alleged offence.
3. If, prior to the initiation of any proceedings under this Code, the student has graduated, the proceedings shall continue.
4. Neither the withdrawal by a student from a degree, diploma or certificate program or from a course, nor the termination of that student's program by his/her department shall affect the filing of an Incident Report or any process provided for under this Code. If a student withdraws from the course, the Registrar will replace the withdrawal (DISC) notation by a pending (PEND) notation until the outcome of the charge is finalized.

Ambiguity

5. Wherever there is doubt or ambiguity regarding any provision of this Code or the procedure to be followed, that interpretation or procedure which appears to be most equitable and consistent with the general purposes and philosophy of this Code shall be adopted. Except for those terms specifically defined in this Code, the terms used shall have their usual meanings.

II. Definitions

Student

6. Student is defined as:
 - a. any person registered in the University whether for courses or research and whether or not a candidate for a degree, diploma or certificate;
 - b. persons once registered in the University who are under suspension from the University;
 - c. persons registered during a preceding academic term.

Days

7. Days is defined as working days which excludes weekends, holidays, and other days during which the University is closed as listed in the Undergraduate and Graduate Calendars.

Dean

8. Dean is defined as:
- a. the Dean of the Faculty or School offering the program in which the student is registered; or
 - b. if the student is not registered in a program, the Dean of the Faculty or School providing the course concerned or in the event that the offence is not related to a particular course, the Dean of the Faculty or School providing the most credits on the student's record; or
 - c. if the student is a graduate student, the Dean of the School of Graduate Studies.
- The Dean may designate a delegate to fulfil any of his or her obligations under this Code. If the course concerned is taught by the Dean, the Provost and Vice-President, Academic Affairs shall assume all of the duties imposed on the Dean in this Code.

Invigilator

9. Invigilator means an instructor or any other person who is charged with supervising an evaluative exercise.

Examination

10. Examination means any evaluative exercise including tests, quizzes and like assignments as well as site supervised examinations and non-site supervised examinations.

Administrator

11. Administrator, as allowed for in article 27, means those individuals who through the normal course of their duties at the University may encounter possible incidents of academic misconduct. Examples of an administrator may include, but are not restricted to: Office of the Registrar or Admissions personnel, Graduate Program Directors, Associate Deans, re-evaluators (see Academic Re-evaluation Procedures) and academic department staff.

Secretary of the Academic Hearing Panel

12. A Secretary of the Academic Hearing Panel shall be named and shall be responsible for the administrative functioning of the Academic Hearing Panels, including maintaining the confidential files and recordings of proceedings of the hearing panels.

Secretary of the Appeals Panel

13. A Secretary of the Appeals Panel shall be named and shall be responsible for the administrative functioning of the Appeals Panels, including maintaining the confidential files of the Appeals Panels. The Secretary of the Appeals Panel shall not be the same individual as named in article 12.

III. Offences

14. Any form of cheating, plagiarism, personation, falsification of a document as well as any other form of dishonest behaviour related to the obtention of academic gain or the avoidance of evaluative exercises committed by a student is an academic offence under this Code.
15. Any attempt at or participation related in any way to an academic offence is also an offence under this Code and shall be dealt with in accordance with the procedures set out in this Code.
16. Without limiting, or restricting, the generality of article 14 above and with the understanding that articles 16 a) to l) are to be considered examples only, academic offences include the carrying out, or attempting to carry out or participating in:
- a. plagiarism — the presentation of the work of another person, in whatever form, as one's own or without proper acknowledgement;
 - b. the contribution by one student to another student of work with the knowledge that the latter may submit the work in part or in whole as his or her own;
 - c. unauthorized collaboration between students;
 - d. tearing or mutilating an examination booklet, inserting pages into a booklet or taking a booklet from the examination room;
 - e. multiple submission — the submission of a piece of work for evaluative purposes when that work has been or is currently being submitted for evaluative purposes in another course at the University or in another teaching institution without the knowledge and permission of the instructor or instructors involved;
 - f. the obtention by theft or any other means of the questions and/or answers of an examination or of any other University-related resource that one is not authorized to possess;
 - g. the possession or use during an examination of any non-authorized documents or materials or possessing a device allowing access to or use of any non-authorized documents or materials;
 - h. the use of another person's examination during an examination;
 - i. communication with anyone other than an invigilator during an examination or the obtention of any non-authorized assistance during an examination;
 - j. personation — assuming the identity of another person or having another person assume one's own identity;

- k. the falsification of a document, in particular a document transmitted to the University or a document of the University, whether transmitted or not to a third party, whatever the circumstances;
- l. the falsification of a fact or research data in a work including a reference to a source, which has been fabricated. Falsification shall not include those factors intrinsic to the process of academic research such as honest error, conflicting data or differences in interpretation or judgement of data or of experimental design.

IV. Procedures

Provisions Governing Examinations

- 17. It is the duty of an invigilator to take action under the following articles when he or she becomes aware of any suspected academic offence.
- 18. Every examination paper shall expressly list the materials and equipment that a student is permitted to have and use during the examination and shall indicate any special conditions relating to the examination.
- 19. Except if expressly authorized by the invigilator, a student may not speak or otherwise communicate with any person other than an invigilator.

Centrally Supervised Examinations

- 20. Where an examination is supervised by the Office of the Registrar or where another central supervisory function is available to deal with allegations of offences related to examinations, a student who is suspected of an academic offence shall be so informed by the invigilator and shall be required to leave the examination area.
- 21. Communication with the student shall be restricted to requesting that he or she, in a written statement, choose one of the following options on a completed Academic Code of Conduct Incident Report ("Incident Report"), see Appendix A (a copy of which is available on the following website: <http://secretariat.concordia.ca/policies/bd/en/BD-3.pdf>):
 - a. to withdraw from the examination with the understanding that if the charge is dismissed, the student shall be permitted to take another examination for the same course at a mutually agreed upon time but no later than one calendar year from the date of the filing of the Incident Report; or
 - b. to continue the examination under controlled conditions in another location in which case the invigilator shall provide a fresh examination booklet and shall allow additional time for the examination to compensate for any time lost. The student shall continue the examination from the point at which he or she was required to leave the examination area; or
 - c. to acknowledge that the exam has been completed.
- 22. Should the student not indicate a choice, he or she shall be considered to have chosen to withdraw from the examination. Until such time as the student has indicated that he or she has chosen to withdraw from the examination or is deemed to have done so, he or she remains under examination conditions.
- 23. The invigilator shall file an Incident Report with the Dean, as defined in article 8 of this Code, and shall include all examination materials as well as any other evidence related to the suspected academic offence. The invigilator may not, on his or her own authority, impose a sanction on the student.

Other Examinations

- 24. Where an examination is not supervised by the Office of the Registrar or where another central supervisory function is not available to deal with allegations of offences related to examinations, a student who is suspected of an academic offence shall be so informed by the invigilator and may be required to leave the examination area immediately. The invigilator shall file an Incident Report with the Dean, as defined in article 8 of this Code, and shall include all examination materials as well as any other evidence related to the suspected academic offence. The invigilator may not, on his or her own authority, impose a sanction on the student.

Non-Examination Related Offences

- 25. An instructor who, in the course of grading a student's work or through any other means, has reasonable grounds to believe that a student in the instructor's course or working under his or her direction has committed a non-examination related offence shall complete an Incident Report. The instructor shall forward the Incident Report to the Dean as defined in article 8 of this Code. The instructor may not, on his or her own authority, impose a sanction on the student. In the interim, and until there is a final outcome of any proceedings under this Code, the instructor shall enter a pending notation.
- 26. Should a person other than an instructor, as named in article 25, have reasonable grounds to believe that a student has committed a non-examination related offence, he or she may report his or her findings to the Department Chair, or equivalent. If the Chair, or equivalent, finds that there are reasonable grounds, he or she shall complete an Incident Report. The Chair, or

- equivalent, shall forward the Incident Report to the Dean as defined in article 8 of this Code. The Chair, or equivalent, may not, on his or her own authority, impose a sanction on the student.
27. Any administrator of the University who to his or her personal knowledge or upon reliable report has reasonable grounds to believe that a student has committed a non-examination related offence shall complete an Incident Report. The administrator shall forward the Incident Report to the Dean as defined in article 8 of this Code. The administrator may not, on his or her own authority, impose a sanction on the student.

Interviews

28. Upon receipt of an Incident Report, the Dean shall send a copy to the student, the Registrar and the Secretary of the Academic Hearing Panel and shall indicate whether he or she intends to interview the student to inquire into the alleged offence or whether the Incident Report is being transmitted directly to an Academic Hearing Panel. The Dean shall, as well, include a copy of this Code.
29. Should the Dean decide to interview the student, the interview shall normally take place within fifteen (15) days of the Dean's receipt of the Incident Report. Whenever possible, five (5) days notice shall be given to the student before the interview. In convening the interview with the student, the Dean shall inform the student of his or her right to consult any person and to be accompanied or represented by a student advocate from the Student Advocate Program, the CSU Student Advocacy Centre or any other member of the University community.
30. When the Dean has decided not to interview the student and to transmit the Incident Report directly to an Academic Hearing Panel such transmission shall take place within fifteen (15) days of receipt of the Incident Report.
31. At the outset of the interview, the Dean shall inform the student that he or she is not obliged to answer any of the Dean's questions and that any answers given may become the basis for an immediate disposition of the case under article 32 or cause the Dean to refer the case to an Academic Hearing Panel or be the subject of testimony by both parties at any subsequent proceeding. The standard of proof to be relied upon by the Dean shall be one of a "preponderance of evidence" as defined in article 49.
32. Within ten (10) days from the conclusion of the interview, the Dean shall write to the student indicating his or her decision to dismiss the charge or, in the case of upholding the charge, to impose one or more of the following sanctions:
- Reprimand the student;
 - Direct that a piece of work be re-submitted;
 - Enter a grade of "0" for the piece of work in question;
 - Enter a grade reduction in the course;
 - Enter a failing grade for the course;
 - Enter a failing grade and ineligibility for a supplemental examination or any other evaluative exercise for the course;
 - Impose the obligation to take and pass courses of up to twenty-four (24) credits in addition to the total number of credits required for the student's program as specified by the Dean. If the student is registered as an Independent student, the sanction will be imposed only if he or she applies and is accepted into a program;

After the interview, the Dean also has the option to refer the case directly to an Academic Hearing Panel, which must be done in all cases of repeat offences.

In the case of a student who has graduated, the only two available sanctions are i) a notation on the student's academic record that he or she has been found guilty of academic misconduct; or ii) a recommendation to Senate for the revocation of the degree obtained.

Where the Dean has decided to dismiss the charge, the Dean shall direct the instructor to submit a grade for the course in question, if applicable.

33. In the case of a sanction imposed by the Dean under article 32, the letter to the student shall inform him or her of the right to obtain a full hearing before an Academic Hearing Panel by notifying the Secretary of the Academic Hearing Panel (the Secretary), in writing, within ten (10) days after the date of transmission of the Dean's decision. A copy of the Dean's letter shall be sent to the Secretary, the Registrar, the instructor and the Department Chair, or equivalent, if applicable.
- When the Dean has decided to dismiss the charge against the student, a copy of the letter dismissing the charge shall be sent to the Secretary, the Registrar, the instructor and the Departmental Chair, or equivalent, if applicable.
34. Where the Dean has imposed a sanction under article 32 and the student has not elected to obtain a full hearing under article 33, the Secretary shall, within a reasonable time, so notify the Dean and the Dean shall file a report with the Registrar containing the following:
- identification of the student concerned;
 - a statement of the facts and findings;
 - a statement of the course of action taken;
 - a statement to the effect that the student concerned was notified in writing of the action taken and of his or her right to a full hearing before an Academic Hearing Panel. Such report shall form a part of the student's permanent file maintained by the Registrar.

35. When the student has elected to obtain a full hearing under article 33, the execution of any decision of the Dean shall be suspended pending disposition by an Academic Hearing Panel. In such cases, the imposition of the sanction of a failing grade shall not be taken into account when calculating the student's grade point average.

Composition of the Academic Hearing Panels

36. An Academic Hearing Panel ("AHP") of five (5) members, as well as a non-voting Chair, shall be selected by the Secretary for a given hearing. The AHP shall be composed of three (3) faculty members drawn from the Faculty Tribunal Pool and two (2) students drawn from the Student Tribunal Pool provided for under the *Policy on the Establishment of Tribunal Hearing Pools* (BD-6). Every attempt will be made to select at least one (1) faculty member and one (1) student from the student's constituency (i.e. by faculty and undergraduate or graduate status).
37. In the absence of one or more panellists and with the consent of both parties, it shall be permitted to proceed with a reduced Panel. A reduced AHP shall be composed of the non-voting Chair as well as two (2) faculty members and one (1) student.

Procedures Before an Academic Hearing Panel

38. Once a matter has been referred to the Secretary, he or she shall convene an AHP to hear the matter. Thereafter, the Secretary shall be responsible for all communications with the parties.
39. A hearing shall be convened as soon as possible after the receipt by the Secretary of the notification and normally within fifteen (15) days. Once a hearing date is fixed by the Secretary, both parties shall submit any documentation they wish considered to the Secretary no later than ten (10) days before the scheduled hearing date. Such documentation shall include all supporting documents, including any submitted during the interview process, and a list of the witnesses, if any, that will appear. The Secretary shall transmit the documentation, together with a list of the Panel members selected for the case, to the parties no later than five (5) days before the scheduled hearing date.
40. When not already evident from the case file, the Secretary shall inform the student of his or her right to consult any person and to be accompanied or represented by a student advocate from the Student Advocate Program, the CSU Student Advocacy Centre or any other member of the University community.
41. Either party may object to the participation of a Panel member on the grounds of potential bias. A reasoned objection shall be filed with the Secretary in writing at least three (3) days prior to the hearing date. The Secretary shall arrange for an alternate Panel member to serve if he or she determines that the objection is well-founded. If the Secretary feels that the objection is frivolous and the matter cannot be resolved, the issue shall be forwarded to the Chair of the AHP who shall render a final decision in this regard.
42. When the offence involves more than one student, either the student(s) or the Dean(s) may request that the Secretary schedule a joint hearing. If the request is initiated by the student(s), it shall be made at the time of his or her initial hearing request. A request from the Dean(s) shall be made following receipt of the student's hearing request notification. The consent of the other party and each of the students called upon to participate shall be obtained prior to proceeding with a Joint Hearing. The AHP has the discretion to uphold or dismiss the charge against each student and to apply the appropriate individual sanction.
43. If a student wishes to withdraw his or her request for a hearing, normally the student shall notify the Secretary of the withdrawal at least seven (7) days prior to the hearing date. Following such a withdrawal, the Dean shall file a report with the Registrar, according to article 34, and include the information that the student withdrew his or her request for a hearing.

The Hearing

44. The AHP shall establish its own rules of procedure. Minimally, these rules shall provide for opening statements by the parties, evidence and witnesses called by the parties (expert or otherwise), the right of cross-examination, questioning by members of the AHP, representations with respect to desired sanctions and closing statements. Hearings shall be recorded and the cassettes kept as part of the permanent record of the proceedings for a period of not less than five (5) years.
45. The role of the Chair shall be to preside over the proceedings, keep order and ensure fairness. The Chair shall, as well, preside over the deliberations of the AHP but shall not vote. Decisions shall be by majority vote. The hearing shall be closed unless both parties have consented in writing to the attendance of members of the University community.
46. The instructor in the course in which the offence took place, if applicable, may be present throughout the hearing or may be called as a witness by either of the parties.
47. If the student fails to attend the hearing, the hearing may proceed in the student's absence or, at the Chair's discretion the start of the hearing may be postponed. If the hearing proceeds in the student's absence, all rights contingent on the student's presence, with the exception of the right to have an advocate present to plead for postponement, are forfeited. In such a case, a student's

right of appeal is limited to a consideration of the reasonableness of his or her excuse for not appearing. If an Appeals Panel finds that the excuse is reasonable, it shall order a new hearing by a new AHP with the student present. The decision of the new hearing with the student present is appealable as if it were a first hearing.

48. At a hearing for a student charged with a repeat offence, other than the fact that a previous charge has been upheld and is, therefore, relevant in relation to article 52, any and all other information concerning the charge(s) shall be excluded, including the nature of the offence(s) and the sanction(s) imposed.
49. The decision of the AHP shall be signed, dated and reasoned. The standard of proof to be relied upon by the AHP shall be one of a "preponderance of evidence". A "preponderance of evidence" standard means that the Dean must establish that his or her version of the facts is significantly more probable.

Sanctions

50. Within ten (10) days from the conclusion of the hearing, the AHP shall write to the student and the Dean, with a copy to the Registrar, indicating its decision to dismiss the charge against the student or, in the case of upholding the charge, to impose one or more of the following sanctions:
 - a. Reprimand the student;
 - b. Direct that a piece of work be re-submitted;
 - c. Enter a grade of "0" for the piece of work in question;
 - d. Enter a grade reduction in the course;
 - e. Enter a failing grade for the course;
 - f. Enter a failing grade and ineligibility for a supplemental examination or any other evaluative exercise for the course;
 - g. Impose the obligation to take and pass courses of up to twenty-four (24) credits in addition to the total number of credits required for the student's program as specified by the Dean. If the student is registered as an Independent student, the sanction will be imposed only if he or she applies and is accepted into a program;
 - h. Impose a suspension for a period not to exceed six (6) academic terms. Suspensions shall entail the withdrawal of all University privileges, including the right to enter and be upon University premises;
 - i. Expulsion from the University. Expulsion entails the permanent termination of all University privileges.

In the case of a student who has graduated, the only two available sanctions are i) a notation on the student's academic record that he or she has been found guilty of academic misconduct; or ii) a recommendation to Senate for the revocation of the degree obtained.

51. A sanction of suspension or expulsion is subject to confirmation by the Provost and Vice-President, Academic Affairs, who shall also determine the effective date.
52. Any student found to have committed a second academic offence shall be expelled from the University subject to confirmation by the Provost and Vice-President, Academic Affairs.
53. The decision of the AHP shall inform the parties of their right to seek an appeal from an Appeals Panel within fifteen (15) days after the date of transmission of the AHP decision.
54. Where neither the Dean nor the student has sought an appeal from an Appeals Panel within the stipulated delay, the Secretary shall so inform the Registrar including a statement to the effect that the Dean and the student concerned were notified in writing of the action taken and of their right to seek an appeal from an Appeals Panel. Such report shall form a part of the student's permanent file maintained by the Registrar. This notification shall be sent to the Dean and the student.
55. The execution of any sanctions by an AHP shall be suspended until the expiry of the delay to seek an appeal or until the rendering of the decision by an Appeals Panel if an appeal is heard. In such cases, the imposition of the sanction of a failing grade shall not be taken into account when calculating the student's grade point average.

Appeals

56. Should either the student or the Dean wish to seek an appeal from a decision or sanction of an AHP, he or she shall apply in writing to the Secretary for the authorization to seek an appeal within fifteen (15) days after the date of transmission of the AHP decision. An Appeals Panel shall decide whether an appeal shall be heard having regard to the circumstances of each case.
57. Such request for authorization to appeal may be based only on the grounds of discovery of new evidence following the rendering of the decision of the AHP or on the presence of serious and prejudicial procedural defects of the AHP. The request shall state in clear and precise terms the grounds on which the appeal is based. The Appeals Panel shall be provided with the complete file of the AHP and its decision shall be based on the written record only.
58. An Appeals Panel of three (3) members, as well as a non-voting Chair, shall be selected by the Secretary for a given appeal. The Appeals Panel shall be composed of two (2) faculty members drawn from the Faculty Tribunal Pool and one (1) student drawn from the Student Tribunal.

Pool. Every attempt will be made to select the student member from the student's constituency (undergraduate or graduate status).

59. An Appeals Panel shall be convened as soon as possible after receipt of the authorization request by the Secretary and normally within fifteen (15) days. It shall normally render its decision with respect to the request within five (5) days of its consideration of the request.
60. If the authorization to appeal is granted, the appeal shall normally be heard within fifteen (15) days of the decision to authorize the appeal. Notification of such shall be sent to both parties.
61. The Appeals Panel has the authority to confirm, reverse or modify the decision being appealed. Further, should the appeal be based on the production of new evidence, the Appeals Panel may order a new hearing of the case by a new AHP.
62. The Appeals Panel shall normally render its decision within ten (10) days of the hearing. The decision of the Appeals Panel shall be signed, dated and reasoned and shall be sent to both parties and the Registrar.
63. The decision of the Appeals Panel shall be final.
64. In the case of the denial of an appeal where the sanction imposed by the AHP was suspension or expulsion, the suspension or expulsion shall take effect on a date to be determined by the Provost and Vice-President, Academic Affairs.

V. Miscellaneous Provisions

Delays and Language

65. In the calculation of any delay set out in the Code, the months of July and August shall not be taken into account. In the case of a hearing before an AHP or an Appeals Panel that commenced before July 1, the regular delays set out in this Code shall apply.
66. Students may participate in interviews conducted under article 29 in either English or French. Further, any party or witness participating in a hearing before an AHP or an Appeals Panel may make their presentation in either English or French. If an interpreter is required to satisfy the preceding, the request shall be made at the same time as the initial AHP request made in accordance with article 33.

Notices

67. Any written notice addressed to a student under this Code shall be sent by courier to the last address provided by the student to the University and shall be deemed to be received one (1) day after delivery.

Notations on Academic Record and Transcript

68. When a charge of academic misconduct has been upheld, the charge and the sanctions shall be reflected on the student's academic record with the sanction appearing as the appropriate article (32 or 50) and the additional notation of "for academic and disciplinary reasons". When the sanction imposed is either 32 (g) or 50 (g), the number of extra credits imposed shall also be noted.
69. Sanctions of a failing grade in a course; a failing grade in a course and further ineligibility for a supplemental examination and the obligation to take extra courses shall be reflected on the student's academic transcript with no additional notations relating to academic misconduct. A grade obtained as the result of a penalty for academic misconduct shall remain in the calculation of the Annual WGPA, the Cumulative GPA and the Graduation GPA, whether or not the course has been repeated.
70. Suspensions imposed under this Code shall be recorded on the academic record and the academic transcript as follows: "Required to withdraw for academic and disciplinary reasons. May not resume studies until [date]". At the date for resumption of studies, the notation shall be removed from the student's academic transcript but shall continue to appear on the student's academic record.
71. The President may, upon written request from a student and in cases where the President considers it appropriate, direct that a sanction, with the exception of expulsion, be removed from the student's academic record. Such written request can be made no sooner than five (5) years after the sanction has been imposed.
72. Any expulsion imposed under this Code shall be recorded on the academic record and the academic transcript as follows: "Required to withdraw for academic and disciplinary reasons. May not apply for re-admission".
73. In cases where a sanction has been imposed but a student has requested either a full hearing before an AHP or has sought an appeal from an Appeals Panel which has not been disposed of, the Registrar shall note on the academic record that both the grade and the sanction are "pending" until both the hearing and appeal process have been completed.
74. Further to article 73, in the case of a sanction of suspension or expulsion, the Registrar shall note on the academic transcript that the sanction is "pending".
75. No degree, diploma or certificate of the University shall be conferred or awarded from the time of the alleged offence until the final disposition of the charge.

Records and Confidentiality

76. The Registrar shall maintain a record in the student's official file with respect to all sanctions imposed under this Code.
77. In all cases where a charge of academic misconduct has been upheld, the responsibility for maintaining the complete file shall rest with the Dean.
78. All records shall be kept in strictest confidence and shall only be communicated to the student concerned and to other persons within the University having a legitimate interest or duty to take communication of them.
- In the event that a charge is dismissed at any level provided for in the Code, all information relating to the charge will be removed from the files held by the Faculty and the Registrar and will have no effect on a student's academic record or future academic activities. However, in accordance with the legislation governing the keeping of records, a record of the charge and its dismissal will be kept in a confidential file by the Secretary and will be destroyed within the time-frame outlined by the University's archives retention rules.
79. Nothing contained in this section shall be interpreted as preventing the Registrar or any other University member from responding to a court order requiring the disclosure of information or statements obtained in the course of an interview or hearing conducted under this Code.

Annual Report

80. An annual report detailing the number of charges laid under this Code and their disposition shall be prepared by the Secretary and presented to Senate by September 30 of each year. The report shall be published in the University's newspaper. In no circumstances shall any mention be made of the names of the parties involved nor of any information, which might lead to their identification.

Overall Responsibility for Code

81. The overall responsibility for the implementation and recommended amendments to this Code shall rest with the Secretary-General. The Secretary-General shall transmit an information sheet to each Dean and Chair at the beginning of the Fall Term each year outlining the general framework of this Code.
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17.20

POLICY ON THE ESTABLISHMENT OF TRIBUNAL HEARING POOLS

General

1. This policy deals with the establishment of tribunal hearing pools for hearings, both first-level hearings as well as appeal hearings, provided for in the Code of Rights and Responsibilities, the Code of Conduct (Academic), the Academic Re-evaluation Procedures, the Graduate Academic Hearing Procedures, and any other codes or policies which may be adopted that refer to the Tribunal Hearing Pools provided for under this policy.
2. In the event that a hearing or appeal panel cannot be convened from the membership of the Student Tribunal Pool, the Faculty Tribunal Pool, or the Administrative and Support Staff Tribunal Pool as outlined below, the Secretary-General shall designate the membership of the relevant hearing or appeal panel for a given case.

Student Tribunal Pool

3. In June of each year, the Concordia Student Union Inc. shall be asked to nominate up to a maximum of twelve (12) undergraduate students and the Graduate Student Association shall be asked to nominate up to a maximum of six (6) graduate students to form the Student Tribunal Pool (STP).
4. In order to be eligible, students shall be registered in an undergraduate or graduate program and be in good standing. Students who are in failed standing, in conditional standing or on academic probation, or who have been sanctioned either under the Code of Rights and Responsibilities or the Code of Conduct (Academic) within the three (3) years previous to their nomination are not eligible.
The status and standing of student nominees shall be confirmed by the University Registrar in September prior to the submission of the list of nominees for approval to Senate by the Secretary of Senate. In addition, the status and standing of members of the STP shall be confirmed by the University Registrar each September for as long as the member remains in office.
5. The term of office of members of the STP shall be for two (2) years, from September 1 to August 31, renewable for a total maximum term of four (4) years. Members remain in office until replaced.

Faculty Tribunal Pool

6. The Council of the Faculty of Arts and Science shall nominate six (6) faculty members, the Council of the John Molson School of Business and the Council of the Faculty of Engineering and Computer Science shall nominate five (5) faculty members each, and the Council of the Faculty of Fine Arts and the Council of the School of Graduate Studies shall nominate three (3) faculty members each, for a total of twenty-two (22) faculty members, to comprise the Faculty Tribunal Pool (FTP).
7. The term of office of members of the FTP shall be for two (2) years, from September 1 to August 31, renewable for a total maximum term of four (4) years. Members remain in office until replaced.
8. The Secretary of each Faculty Council and the Council of the School of Graduate Studies shall forward a list of nominees to the Secretary of Senate prior to its September meeting for approval.

Administrative and Support Staff Tribunal Pool

9. The Administrative and Support Staff Tribunal Pool (AaSSTP) shall be comprised of five (5) members nominated in accordance with the Electoral College Policy.
Administrative and support staff members from the University Secretariat, the Ombuds Office, and the Office of Rights and Responsibilities shall not be eligible for membership on the AaSSTP.
10. The term of office of members of the AaSSTP shall be for two (2) years, from September 1 to August 31, renewable for a total maximum term of four (4) years. Members remain in office until replaced.
11. The Executive Director of Human Resources and Employee Relations shall forward a list of nominees to the Secretary of the Board of Governors prior to its September meeting for approval.

Chairs

12. In addition to the members of the STP and FTP appointed by Senate, and the members of the AaSSTP appointed by the Board, Senate shall appoint up to a maximum of fifteen (15) individuals to serve as non-voting Chairs of the various tribunal panels dealt with under this policy.
13. The role of the Chairs shall be to preside over the various tribunal panels, keep order and ensure fairness. The Chairs shall, as well, preside over the deliberations of the various tribunal panels but shall not vote.
14. Because the role of the Chairs of the various tribunal panels requires impartiality and particular skills which take time to develop and cannot easily be acquired by lay persons during a brief term of office, the Chairs shall normally be selected from qualified alumni or emeriti who have training in law or tribunal procedures as well as some knowledge of the University environment.
15. The term of office for Chairs shall be for two (2) years, from September 1 to August 31, renewable with no maximum term.
16. The candidates for the Chairs shall be recommended to Senate by the University General Counsel in consultation with the secretaries of the tribunal panels dealt with under this policy. Curriculum vitae of the candidates shall accompany the recommendation.

Training

17. All members of the STP, FTP, and AaSSTP shall receive training, prepared and conducted jointly by the secretaries of the tribunal panels dealt with under this policy, the Director of Advocacy and Support Services, and the University General Counsel. Separate training shall be held for the Chairs.
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17.30

RIGHTS AND RESPONSIBILITIES

Advisor on Rights and Responsibilities
PETER CÔTÉ

Location

Sir George Williams Campus
Office of Rights and Responsibilities
GM Building, Room: 1120
514-848-2424 ext. 4857

CODE OF RIGHTS AND RESPONSIBILITIES

*Section I:
Statement of
Principles*

1. Rights

The Code of Rights and Responsibilities is to be applied in such a way as to respect the following basic principles:

- 1.1 All faculty members, administrative and support staff, members of the administration, and students of Concordia University may reasonably expect to pursue their work and studies in a safe and civil environment; therefore neither Concordia University nor its faculty members nor its administrative and support staff nor the members of its administration nor its students shall condone any conduct which adversely affects the pursuit of works and studies in a safe and civil environment.
- 1.2 Everyone has the fundamental freedom of conscience and religion; freedom of thought, belief, opinion, and expression; freedom of peaceful assembly and freedom of association; the whole subject to the limits recognized by law.

2. Academic Freedom

This Code is not to be applied in such a way as to detract from the right of faculty members, administrative and support staff, members of the administration, and students to engage in the frank discussion of potentially controversial matters, such as race, sex, sexual orientation, gender identity, politics or religion. Furthermore, this Code shall not be interpreted in such a way as to limit the use of legitimate instructional techniques, such as irony, argument, conjecture and refutation, or the assignment of readings, which may present a controversial point of view. This Code also recognizes the right to teach, within the bounds of the course calendar description and requirements of competency, and to conduct research and to engage in creative activity according to one's best judgement.

3. Responsibilities

All faculty members, administrative and support staff, members of the administration, and students are expected to refrain from violating this Code. Members of the University who have supervisory authority over others bear a particular responsibility to act in a timely and effective manner when they become aware of any violation of this Code.

4. Assistance from the Office of Rights and Responsibilities

This Code establishes the Office of Rights and Responsibilities whose mandate is to assist Members of the University in resolving incidents involving an alleged violation of this Code in an effective and constructive manner. Such assistance is available both to individuals who believe that they have been subjected to conduct that violates this Code and to those with supervisory authority who are called upon to respond to incidents of such conduct. The operations of the Office of Rights and Responsibilities are directed by the Advisor, as set forth under Section IX.

5. Complaints Subject to a Range of Responses

In keeping with its desire to settle conflicts in an effective and constructive manner, the University and its faculty members, administrative and support staff, members of its administration, and students shall endeavour to seek an appropriate response to any alleged violations of this Code, ranging from the use of alternate methods of conflict resolution to formal procedures for adjudicating complaints. If a violation of this Code has occurred, every attempt shall be made to use remedies and sanctions that restore harmony, collegiality, and cooperation between Members of the University.

6. Fairness and Consistency

Complaints made under this Code shall be adjudicated in a manner that is consistent with the principles of natural justice and fair for all parties to the complaint, regardless of constituency. The

principles of natural justice may be defined broadly as the right to be heard, the obligation to hear the other side, and decisions made untainted of bias.

7. Management Rights

This Code is not to be applied in such a way as to detract from the right and duty of those with supervisory authority to manage and, if necessary, to discipline faculty, administrative and support staff, members of the administration, and students in accordance with collective agreements and University policies and procedures.

8. Union Rights

This Code is not to be applied in such a way as to detract from the rights of unions to defend the interests of their members and to exercise their rights under a collective agreement.

9. Recourse at Law

This Code does not detract from the right of Members of the University to seek recourse at law.

10. Code Does Not Supersede Other Policies or Agreements

Nothing in this Code shall replace or supersede any complaint, grievance, or appeal procedure set out in any collective agreement to which Concordia University is a party, the Code of Conduct (Academic), the University Calendars, or the Official University Policies.

11. Informing the Community

The Office of Rights and Responsibilities shall inform all Members of the University of the provisions of this Code and the services provided by the Advisor.

Section II: Interpretation

12. Definitions

In the present Code (and only for purposes of this Code), the following terms shall have the meanings specified in this Section II:

- 12.1 “**Advisor**” means the Advisor on Rights and Responsibilities as appointed by the President in accordance with Section IX of the present Code.
- 12.2 “**Appeals Panel**” means the Appeals Panel selected in accordance with sub-article 29.8 of the present Code.
- 12.3 “**Authority**” has the meaning ascribed thereto in sub-article 32.4.
- 12.4 “**Chair**” means the Chair of the Hearing Panel or the Appeals Panel, as the case may be.
- 12.5 “**Days**” means working days, which excludes weekends, holidays, and other days during which the University is closed.
- 12.6 “**Disciplinary Officers**” has the meaning ascribed thereto in article 36.
- 12.7 “**Discrimination**” means treatment which:
 - a) has the effect or purpose of imposing burdens, obligations, or disadvantages on Members or groups of Members; and
 - b) for which there is no bona fide and reasonable justification; and
 - c) when such treatment is based on one of the prohibited grounds specified in the *Quebec Charter of Human Rights and Freedoms*, that is; race, colour, ethnic or national origin, sex, gender identity, pregnancy, sexual orientation, civil status, age, religion, political convictions, language, social condition, handicap or the use of a means to palliate a handicap.
- 12.8 “**Dismissal**” or “**to Dismiss**” from the University means the termination of all a person's rights and privileges as a student at the University (including the right to enter and be on University property) in respect of which no application for readmission by the person will be entertained by the University until after a period of two (2) years from the dismissal, or such other lesser period as the President, the Acting President, or the Hearing Panel may determine. Dismissal shall be recorded on the academic transcript as follows: “Required to withdraw. May not apply for readmission until (date).” At the date permitted for application for readmission, the notation shall be removed from the transcript but shall continue to be maintained in the confidential files of the Dean of Students.
- 12.9 “**Expulsion**” or “**to Expel**” from the University means the termination of all a person's rights and privileges as a student at the University (including the right to enter and be on University property) in respect of which the University will not entertain any application from that person for readmission. Expulsion shall be recorded on the academic transcript as follows: “Required to withdraw. May not apply for readmission.”
- 12.10 “**Harassment**” means:
 - a) unwelcome, vexatious conduct, directed towards a Member or group of Members; and
 - b) which may or may not be based upon one of the prohibited grounds specified in sub-article 12.7 c); and
 - c) when such conduct has the effect or purpose of unreasonably interfering with a Member's work or academic, athletic, or artistic performance or of creating an intimidating or hostile environment for work or study.

- 12.11 **"Hearing Panel"** means the Hearing Panel selected in accordance with article 25 of the present Code.
- 12.12 **"Members" or "Members of the University"** means faculty members, administrative and support staff, members of the administration, and students of Concordia University.
- 12.13 **"Offences against property"** means wilfully or recklessly taking, having unauthorized possession of, damaging or destroying any property belonging:
- a) to the University; or
 - b) to any Member or group of Members when such property is on University premises or on other premises during the course of a University-sponsored activity or event.
- 12.14 **"Office of Rights and Responsibilities"** has the meaning ascribed thereto in article 4.
- 12.15 **"Protocol on the Co-ordination of Urgent Cases of Threatening or Violent Conduct"** means the Protocol in Appendix A (a copy of which is available on the following website: <http://secretariat.concordia.ca/policies/bd/en/BD-3.pdf>), as it may be amended from time to time by the Secretary-General.
- 12.16 **"Secretary"** means the Secretary of the Code of Rights and Responsibilities Hearing Panels or the Secretary of the Code of Rights and Responsibilities Appeals Panels, as the case may be, as appointed by the Secretary-General in accordance with article 24.
- 12.17 **"Secretary-General"** means the University's Secretary-General.
- 12.18 **"Security Department"** means the University's security department.
- 12.19 **"Sexual harassment"** means conduct of a sexual nature such as, but not limited to, sexual assault, verbal abuse or threats of a sexual nature, unwelcome sexual invitations or requests, demands for sexual favours or unwelcome and repeated innuendos or taunting about a Member's body or appearance when:
- a) submission to such conduct is made, whether explicitly or implicitly, a term or condition of a Member's employment or educational progress; or
 - b) submission to or rejection of such conduct is used as the basis for an employment or academic decision affecting that Member; or
 - c) such conduct has the effect or purpose of unreasonably interfering with a Member's work or academic, athletic, or artistic performance or of creating an intimidating or hostile environment for work or study.
- 12.20 **"Student"** means any person registered in an undergraduate or graduate degree or Certificate program of the University on a full-time or part-time basis; however such person is considered a "student" for purposes of this Code only during the period terminating upon the earlier of the following dates whereupon such person shall be deemed to be a visitor for purposes of this Code:
- a) the date on which such person's degree or certificate is conferred;
 - b) three consecutive terms after such person was last registered in at least one (1) course; or
 - c) the end of the term during which such person is declared in failed status and is no longer entitled to register in any course at the University.
- The term **"student"** also includes: (a) any person who is registered as an **"independent student"** at the University; however, such person is deemed a **"student"** for purposes of this Code only during the term in which the person is registered in at least one course at the University and during the immediately following term whereupon such person shall be deemed to be a visitor for purposes of this Code; and (b) any person registered as a **"student"** at another university who has written approval from such person's home university to take courses at Concordia University; however, such person shall be deemed a **"student"** only during the term during which the person is registered in at least one course at the University, whereafter such person shall be deemed to be a visitor for purposes of this Code.
- For purposes of the Code, the three terms shall be the Fall Term (from September 1 to December 31 inclusive), the Winter Term (from January 1 to the last day of the winter-term examination period inclusive) and the Summer Session (from the first day following the termination of the Winter Term to August 31 inclusive).
- 12.21 **"Suspension" or "to Suspend"** means the withdrawal of such University privileges as are specified by the President, the Acting President, or the Hearing Panel. If no particular privileges are specified, **"Suspension"** shall entail the withdrawal of all University privileges, including the right to write examinations and the right to enter and be upon University property, in which case the student, during such suspension, may only come upon University property for a specified purpose, previously authorized in writing by a Disciplinary Officer. Suspension shall be recorded on the academic transcript as follows: "Required to withdraw. May not resume studies until (date)." At the date for resumption of studies, the notation shall be removed from the transcript but shall continue to be maintained in the confidential files of the Dean of Students.
- 12.22 **"Threatening or violent conduct"** means:
- a) assaulting another Member; or
 - b) threatening another Member or group of Members with bodily harm or causing another Member or group of Members to have reasonable grounds to fear bodily harm; or

- c) creating, or threatening to create, a condition which unnecessarily endangers or threatens the health, safety, or well-being of another Member or group of Members or threatens the damage or destruction of property.

12.23 **"Tribunal Hearing Pools"** means the tribunal pools created in accordance with the *Policy on the Establishment of Tribunal Hearing Pools*.

12.24 **"University"** means, unless the context warrants otherwise, Concordia University and any of the University's constituent entities, and any person acting in his or her capacity as a representative of the University or any of its constituent entities.

13. Ambiguities

Wherever there is doubt or ambiguity regarding any provision of this Code or the procedure to be followed, that interpretation or procedure which appears to be most equitable and consistent with the general purposes and philosophy of this Code shall be adopted. Except for those terms specifically defined in this Code, the terms used shall have their usual meanings.

Section III: Jurisdiction

14. Code Applies to All Members of the University

This Code applies to all Members of the University.

15. Jurisdiction

Complaints with respect to a violation of this Code may be made by Members of the University in relation to the conduct of other Members where the complainant is directly affected by the conduct in question. As well, the University, through its designated officers, may make a complaint on its own behalf. The alleged violation must have taken place on University premises, either rented or owned, or on other premises, in the course of any University-sponsored activity or event.

Exceptionally, complaints may be made regarding an alleged violation that has taken place at another location, where the potential consequences of the violation may adversely affect the complainant's course of work or study at the University.

16. Complaints Against Former Students

For the purpose of disciplinary review of a student's conduct, the student need only have been a student at the time of the alleged offence. If any proceedings under this Code cannot be initiated or completed because a student against whom a complaint has been filed has graduated or ceases to be registered, the proceedings shall continue if the student registers again for a new program or if the alleged offence, if proven, would impugn the validity of the degree conferred.

If a complaint has been upheld against a student who later graduates or ceases to be registered prior to the fulfilment of the sanction imposed, a notation shall be made in the graduate's or former student's record stating that he or she has been sanctioned under the Code and cannot return to the University until such time that he or she has fulfilled the sanction imposed.

17. Contractors, their Employees and Visitors

Contractors, their employees and representatives, and visitors to the University as well as any other persons associated with or taking courses at the University or on University premises are expected, while on University premises or present in any University-related activity, to conduct themselves in a manner consistent with this Code. Violations of this Code by such persons other than Members of the University may be dealt with, where applicable, as potential breaches of contract and, in addition thereto, the President and any other person designated by the President may exclude each such person from any University premises and take any other steps that may be appropriate. Should such persons believe that they have been subjected to conduct on campus in violation of this Code, they may consult the Office of Rights and Responsibilities for advice.

Section IV: Offences Prohibited Under this Code

18. Offences

The following constitute conduct injurious to the pursuit of work and studies in a safe and civil environment and are prohibited under this Code:

18.1 Discrimination, as defined in sub-article 12.7;

18.2 The distribution, communication, publication or public exhibition by any means of any matter deemed to be discriminatory or to expose a person or persons to hatred or contempt by reason of the fact that that person or those persons are identifiable on the basis of a prohibited ground of discrimination, as contemplated under the *Quebec Charter of Human Rights* or under the *Canadian Human Rights Act*, and for which there is no bona fide and reasonable justification;

18.3 Harassment, as defined in sub-article 12.10;

18.4 Sexual harassment, as defined in sub-article 12.19;

18.5 Threatening or violent conduct, as defined in sub-article 12.22;

18.6 Offences against property, as defined in sub-article 12.13;

18.7 Knowingly furnishing false information or knowingly reporting a false emergency to any University official, faculty member, or office;

- 18.8 Maliciously activating fire alarms;
- 18.9 Bomb threats;
- 18.10 Theft or abuse of computing facilities or computer time, including but not limited to: unauthorized entry into a file to copy, use, read, or change its contents; unauthorized transfer of a file; unauthorized use of another individual's identification or password; use of computing facilities to interfere with the work of another student, faculty member, or University official; deliberately introducing a virus in the computer network; or use of computing facilities to interfere with a University computing system;
- 18.11 Unauthorized entry into any University property;
- 18.12 Obstruction or disruption of teaching, research, administration, study, student disciplinary procedures, or other University activity (not to be construed in such a way as to prohibit peaceful assemblies and demonstrations and lawful picketing);
- 18.13 Camping or lodging on University property other than in authorized facilities;
- 18.14 Forging or, without authority, knowingly altering, using, receiving, or possessing University supplies or documents (including without limitation, records, keys, electronic devices or identifications);
- 18.15 Hazing or any method of pre-initiation or initiation into a student organization or any pastime or amusement engaged in with respect to such an organization which causes, or is likely to cause, bodily danger, physical harm, or personal degradation or disgrace resulting in physical or mental harm;
- 18.16 Unlawful manufacture, distribution, possession, use, sale or the attempted manufacture, distribution, or sale of controlled substances;
- 18.17 Possession, use, threatened use, storage, or manufacture of explosives, firebombs, or other destructive devices;
- 18.18 Possession, use, threatened use, or manufacture of firearms, ammunition, dangerous chemicals, or other weapons, except as expressly authorized by law or University regulations;
- 18.19 Unauthorized use or duplication of the University's name, trademarks, logos, or seals; and
- 18.20 Any other action that is not specifically described in this Section IV but which is an offence described in any federal, provincial, or municipal law or regulation, which occurs in the University context, and which can reasonably be said to adversely affect the pursuit of works or studies in a safe and civil environment, or the safety and security of a Member or a group of Members of the University.

*Section V:
Informal Resolution
of Complaints*

- 19. **Consultation with the Advisor on Rights and Responsibilities**
- 19.1 The Advisor on Rights and Responsibilities shall be impartial in the exercise of his or her functions, and shall respect the confidentiality of all parties to any matter in which the Advisor has been requested to assist.
- 19.2 Members of the University who believe that they have been subjected to conduct that violates this Code may consult the Advisor. The primary goal of the consultation is that the complainant be assisted in making an informed choice as to the most appropriate method of resolution to a complaint or conflict.
- 19.3 Normally, a complaint should be filed with the Advisor within two (2) months of the alleged violation. This period may be extended at the discretion of the Advisor when, in the opinion of the Advisor, there are serious and compelling reasons to grant such an extension. If the person against whom the complaint is made (the respondent) is a member of a union, the Advisor shall inform the complainant of any delays regarding disciplinary procedures which may be prescribed in the respondent's collective agreement.
- 19.4 The Advisor may, upon written notice to the complainant, refuse to assist in informal resolution or to proceed with a formal complaint, on one or more of the following grounds, (to be set forth in the written notice) in which case the complainant, if he or she is a student, shall have the recourse set forth in sub-article 19.5:
 - a) is not within the jurisdiction of this Code, in which case the Advisor shall, if appropriate, re-direct the complainant to the relevant channels for redress; or
 - b) is trivial, frivolous, vexatious, or made in bad faith; or
 - c) is being heard, or has already been heard by another University officer, or through another University procedure; or
 - d) does not appear to be supported by sufficient evidence.
- 19.5 If the Advisor has refused to proceed with a formal complaint, the complainant may appeal such a refusal within ten (10) Days of receipt of the Advisor's notice contemplated under sub-article 19.4, by submitting a request in writing to the Advisor and the Secretary. A Hearing Panel shall be convened as soon as possible after receipt of the notification by the Secretary and normally within ten (10) Days. Once a hearing date is fixed by the Secretary, each of the complainant and the Advisor shall deliver written submissions to the Secretary at least two (2) Days prior to the date fixed for the hearing. The Hearing Panel shall render its reasoned decision based on such written submissions. The Secretary shall advise each of the complainant and the Advisor with the names of the panellists no later than five (5) Days before

the hearing. The provisions of sub-article 26.8 shall apply, except that a reasoned objection to the participation of a panellist on the grounds of potential bias shall be filed no later than three (3) Days before the hearing. The decision of the Hearing Panel is final.

- 19.6 If the Advisor does not make a determination under sub-article 19.4, the complainant shall decide upon one of the following courses of action:
- a) to proceed with informal conflict resolution under article 20 or 21; or
 - b) to proceed with a formal process under Section VI or Section VII; or
 - c) to take no further action; or
 - d) to pursue any other course of action available at law, under a collective agreement or under any other University policies or procedures.

20. Procedures for Informal Resolution

- 20.1 If the complainant opts to proceed with informal conflict resolution, the complainant may authorize the Advisor to take steps to attempt an informal resolution of the complaint. Such steps may take a variety of forms, for example, helping to clarify perceptions, raising awareness of the impact of certain conduct, reconciling differences or sorting out misunderstandings. The parties may be brought together or communication may be effected through the Advisor.
- 20.2 Where the situation lends itself to structured mediation and both parties agree thereto, the Advisor may personally act as mediator, or may assist the parties in obtaining the services of another Member of the University who is qualified to perform this function.
- 20.3 Any informal agreement reached between the parties through informal conflict resolution is entirely voluntary. Neither the Advisor nor any other mediator has authority to impose conditions or sanctions upon either party.
- 20.4 The complainant may withdraw the complaint at any point during the process of informal resolution. As well, the Advisor may withdraw from the informal process if the Advisor determines that no useful purpose will be achieved by continuing to attempt informal resolution.
- 20.5 Normally, attempts at informal resolution shall not last longer than three (3) months.

21. Referral to the Dean of Students

- 21.1 Where a concern has been raised about a student's conduct, and, in the opinion of the Advisor, it cannot be adequately addressed using the range of informal options described in article 20, the Advisor may, with the agreement of the complainant, refer the matter to the Dean of Students for disposition.
- 21.2 The Advisor shall forward the details of the matter, in writing, to the Dean of Students, who shall meet with the respondent.
- 21.3 In disposing of the matter, the Dean of Students shall seek a response which is instructive for the respondent and which is intended to help prevent further problems of behaviour. Responses may include, but are not limited to, the following examples:
- a) issuing of a verbal or written warning not to repeat the behaviour in question;
 - b) requesting that the respondent give a verbal or written apology; or
 - c) directing that the respondent's University computer privileges be suspended, where the complaint concerns abuse of such privileges. This measure may only be implemented if it can be done in such a manner as to not hinder the student's academic activities.
- 21.4 The Dean of Students will maintain a file on the matter and will provide a written summary of the outcome to the Advisor who will, in turn, inform the complainant.

22. Files of Complaints Resolved Informally

Upon resolution of a complaint by the informal process, the Advisor shall prepare a summary of the matter, but shall remove all information identifying the parties from the file.

Section VI: Procedures for Adjudicating Formal Complaints Against Students

23. Formal Complaints

Formal complaints made by students against other students shall be adjudicated by a Hearing Panel consisting only of students. Formal complaints made by any Member of the University who is not a student against a student shall be adjudicated by a Hearing Panel consisting of students, faculty and/or administrative and support staff.

24. The Secretary

- 24.1 A permanent Secretary of the Code of Rights and Responsibilities Hearing Panels shall be appointed by the Secretary-General. The Secretary shall be responsible for the administrative functioning of the Hearing Panels and shall maintain the confidential files and recordings of proceedings of the Hearing Panels.
- 24.2 Similarly, a permanent Secretary of the Code of Rights and Responsibilities Appeals Panels shall be appointed by the Secretary-General and shall be responsible for the administrative functioning of the Appeals Panels and shall maintain the confidential files and recordings of proceedings of the Appeals Panels.

- 25. Structure of Hearing Panels**
- 25.1 Where a formal complaint is made by a student against another student, the Secretary shall select a Hearing Panel composed of three (3) graduate or undergraduate students drawn from the Student Tribunal Pool and one (1) non-voting chair.
- 25.2 In all other cases, the Secretary shall select a Hearing Panel composed of:
- a) one (1) non-voting chair; and
 - b) two (2) undergraduate or graduate students drawn from the Student Tribunal Pool;
 - c) one (1) faculty member drawn from the Faculty Tribunal Pool; or one (1) member of the administrative or support staff drawn from the Administrative and Support Staff Tribunal Pool if the complainant is a member of the administrative or support staff. If the complainant is the University (as per article 15), a member of the senior administration or the Security Department, the member shall be drawn from the Faculty Tribunal Pool.
- 26. Initiating a Formal Complaint**
- 26.1 A complainant may opt to proceed directly to a formal complaint at the outset or after an attempt at informal conflict resolution has been unsuccessful. No statements, documents, or information brought forward in the course of an attempt at informal conflict resolution may be used or referred to should a formal complaint be initiated.
- 26.2 In the event that a formal complaint proceeds, the following provisions shall apply.
- 26.3 The Advisor shall provide the complainant with a copy of this Code and shall inform the complainant of the following:
- a) the required format for submitting the complaint, which must be made in writing, signed and dated, and must identify the complainant and the respondent and the precise nature of the complaint, including the provision(s) of the Code under which the complaint is being filed;
 - b) the procedures which shall be followed by a Hearing Panel;
 - c) the right of the complainant and the respondent to consult any person in the preparation of his or her case, and to be accompanied or represented before a Hearing Panel by any Member of the University. If the complainant is a student, he or she also has the option of obtaining a student advocate through the services of Advocacy and Support Services or CSU Student Advocacy Centre; and
 - d) the right of appeal.
- 26.4 Upon receipt of the written complaint, the Advisor shall immediately notify the respondent. The respondent shall receive a copy of the Code and a copy of the complaint together with the information detailed in sub-articles 26.3 b), c), and d).
- 26.5 Concurrent with the notification sent to the respondent, the Advisor shall notify the Secretary who shall convene a Hearing Panel to hear the matter. Thereafter, the Secretary shall be responsible for all communications with the complainant and the respondent.
- 26.6 A Hearing Panel shall be convened as soon as possible after receipt of the notification by the Secretary and normally within twenty (20) Days.
- 26.7 Once a hearing date is fixed by the Secretary, the complainant shall submit any additional documentation substantiating the complainant's case to the Secretary no later than fifteen (15) Days before the scheduled hearing date. Such documentation shall include any supporting documents and a list of the witnesses that will appear, if any, and written statements, if any, made by witnesses regarding the complaint.
- The Secretary shall forward the documentation together with a list of the panellists selected for the case to the respondent no later than ten (10) Days before the scheduled hearing date. The list of panellists shall also be sent to the complainant.
- The respondent shall deposit with the Secretary whatever documentation the respondent wishes to present at the hearing and the list of witnesses who shall testify on the respondent's behalf no later than five (5) Days before the hearing. The Secretary shall immediately and no later than three (3) Days before the hearing forward a copy of the entire file to each member of the Hearing Panel. The Hearing Panel may limit the number of witnesses called by both parties, taking into account their relevancy to the subject matter of the hearing.
- 26.8 Either party may object to the participation of a panellist on the grounds of potential bias. A reasoned objection shall be filed no later than five (5) Days after having received the list of panellists with the Secretary who shall arrange for an alternate panellist to serve if the Secretary determines that the objection is well founded. If the Secretary feels that the objection is frivolous and the matter cannot be resolved, the issue shall be forwarded to the Chair of the Hearing Panel who shall render a final decision in this regard.
- 26.9 A settlement may be agreed to by the parties at any time prior to the hearing. If both parties agree to attempt a settlement, the Advisor shall convene and facilitate a meeting between them. The process is entirely voluntary but once a settlement is reached, it is binding. The Advisor shall monitor the terms of the settlement and if either party defaults on the settlement, the Advisor shall inform the other party, who may then decide to resume the formal procedure. No settlement may be imposed by either party without the full agreement of the other.

27. The Hearing

- 27.1 The Hearing Panel shall establish its own rules of procedure. Minimally, these rules shall provide for opening statements by the parties, the presentation of evidence and witnesses, the right of cross-examination, questioning by members of the Hearing Panel, representations with respect to desired sanctions, and closing statements. Hearings shall be recorded, and the cassette kept as part of the permanent record of proceedings for a period of not less than five (5) years.
- 27.2 The role of the Chair shall be to preside over the proceedings, keep order, and ensure fairness. The Chair shall preside over the deliberations of the Hearing Panel but shall not vote. Decisions shall be by majority vote. The deliberations of the Hearing Panel shall only be attended by the Chair, the secretary of the Hearing Panel, and the panellists.
- 27.3 The hearing shall be closed and confidential unless both parties have consented in writing to the attendance of Members of the University.
- 27.4 If the respondent fails, without reasonable excuse, to attend the hearing, the hearing may proceed in his or her absence or, at the Chair's discretion, the start of the hearing may be postponed. If the hearing proceeds in the respondent's absence, all rights contingent on the respondent's presence, with the exception of the right to have an advocate present to plead for postponement, are forfeited. In such a case, a respondent's right of appeal is limited to a consideration of the reasonableness of the respondent's excuse for not appearing. If an Appeals Panel finds that the excuse is reasonable, it shall order a new hearing by a new Hearing Panel with the respondent present. The decision of the new hearing with the respondent present is appealable as if it were a first hearing.
- 27.5 The Hearing Panel shall provide a signed, dated and reasoned decision. The standard of proof to be relied upon by the Hearing Panel shall be one of a "preponderance of evidence". A "preponderance of evidence" standard means that the complainant must establish that the complainant's version of the facts is significantly more probable. This standard is less rigorous than the standard of "beyond a reasonable doubt" required under criminal law.

28. Sanctions

- 28.1 The Hearing Panel may impose one or more of the following sanctions:
- a) a written reprimand;
 - b) conditions (the Hearing Panel does not, however, have the authority to bar a student from any academic activity);
 - c) payment as compensation for damage or loss of property or to otherwise rectify a situation which the student created or helped to create;
 - d) specified community service at Concordia University of up to ten (10) hours per week for a specified period of time not exceeding a total number of 60 hours;
 - e) a fine not exceeding \$500 when the Hearing Panel deems that other sanctions are not appropriate or practical;
 - f) subject to confirmation by the President or the Acting President, a recommendation of Suspension from the University;
 - g) subject to confirmation by the President or the Acting President, a recommendation of Dismissal from the University;
 - h) subject to confirmation by the President or the Acting President, a recommendation of Expulsion from the University.
- 28.2 All monetary sanctions shall be payable within twenty (20) Days of the date of transmission of the Hearing Panel's decision. Subject to the provisions of sub-article 29.4, the execution of any non-monetary sanction imposed by the Hearing Panel shall not be suspended by an appeal.
- 28.3 The decision of the Hearing Panel shall normally be rendered within ten (10) Days of the hearing and shall be communicated in writing to both parties and the Advisor together with notice as to the appeal process provided for under this Code.
- 28.4 The administration and monitoring of the sanction(s) imposed shall be the responsibility of the Dean of Students. Failure to pay any monetary sanction imposed within the delay prescribed in sub-article 28.2 shall result in the amount being added to the respondent's student account. Should the respondent fail to comply with any non-monetary sanction, the Dean of Students shall, in writing, convene the student to an interview and inform the student of his or her right to be accompanied by a student advocate from Advocacy and Support Services, the CSU Student Advocacy Centre, or any other member of the University community. During the interview, the student shall have the opportunity to review the evidence related to the alleged violation of the sanction(s) and to provide the Dean of Students with his or her explanation. Following the interview, the Dean of Students may recommend to the President that the student:
- a) not be permitted to re-register until such time as the student has fully complied with the sanction(s) imposed;
 - b) be suspended, or given an additional suspension if the original sanction was a suspension;
 - c) be expelled if the student has repeatedly, more than twice, failed to respect the sanction imposed; or

d) that his or her diploma be withheld until such time as the student has fully complied with the sanction(s) imposed.

If the student fails, without reasonable excuse, to attend the interview with the Dean of Students, the Dean of Students shall review the evidence related to the alleged violation of the sanction(s) and, as the case may be, make a recommendation to the President.

29. Appeals

29.1 A party who wishes to appeal a decision or sanction of the Hearing Panel, or both, shall apply in writing to the Secretary for the authorization to lodge an appeal. Such request for authorization to appeal shall be submitted to the Secretary no later than fifteen (15) Days after the date of transmission to the parties of the decision of the Hearing Panel.

29.2 Any request for authorization to appeal may be based only on the following grounds:

- a) the discovery of new evidence following the rendering of the decision of the Hearing Panel;
- b) the presence of serious and prejudicial procedural defects; or
- c) the decision of the Hearing Panel is patently unreasonable.

29.3 The request for authorization to appeal shall state in clear and precise terms the grounds on which the appeal is based. Upon reception of the request for authorization to appeal, the Secretary shall provide the respondent with a copy of said request.

29.4 In its request for authorization to appeal, an appellant subject to a sanction may ask the Appeals Panel to suspend the execution of said sanction until a final decision has been rendered by the Appeals Panel.

29.5 The respondent shall submit a concise written reply to the appellant's request for authorization to appeal and the grounds invoked within five (5) Days of its reception. This statement shall identify the respondent's position on each ground of appeal.

29.6 All parties to the appeal shall have access to the audiotape recordings for the purpose of preparing their statements.

29.7 An Appeals Panel shall be convened as soon as possible after receipt of the request by the Secretary and normally within fifteen (15) Days.

29.8 The Secretary shall select an Appeals Panel composed of:

- a) one (1) non-voting chair;
- b) two (2) graduate or undergraduate students drawn from the Student Tribunal Pool;
- c) two (2) faculty members drawn from the Faculty Tribunal Pool;
- d) one (1) member of the administrative or support staff drawn from the Administrative and Support Staff Tribunal Pool.

Notwithstanding sub-articles 29.8 c) and d) above, if the complainant is a member of the administrative and support staff, the Appeals Panel shall be composed of two (2) members of the administrative or support staff drawn from the Administrative and Support Staff Tribunal Pool and one (1) faculty member drawn from the Faculty Tribunal Pool. If the complainant is the University (as per article 15), a member of the senior administration, or the Security Department, the Appeals Panel shall be composed of two (2) faculty members drawn from the Faculty Tribunal Pool and one (1) member of the administrative or support staff drawn from the Administrative and Support Staff Tribunal Pool.

29.9 In no case shall members of the Appeals Panel also have been members of the Hearing Panel which conducted the original hearing.

29.10 The Appeals Panel shall decide whether an appeal shall be heard, having regard to the circumstances of each case.

29.11 The Appeals Panel shall normally render its decision with respect to the request for authorization, and, as the case may be, the suspension of the execution of any sanction, based upon the written record only, within five (5) Days of its consideration of the request. The Appeals Panel shall be provided with the complete file of the Hearing Panel.

29.12 The Appeals Panel shall render its decision with respect to the request for authorization in writing, with brief reasons supporting its decision.

29.13 If the authorization to appeal is granted, it shall normally be heard within fifteen (15) Days of the decision to authorize the appeal. Notification of such decision to authorize the appeal shall be sent to both parties.

29.14 During the hearing of the appeal, the appellant and the respondent are allowed to make oral representations but are not allowed to bring witnesses or to produce new evidence. The decision of the Appeals Panel on the appeal shall only be based upon the representations made by the parties, the decision of the Hearing Panel, the written record, the complete file of the Hearing Panel and the audiotape recordings, as the case may be.

29.15 The Appeals Panel has the authority to confirm, reverse, or modify the decision being appealed. Furthermore, should the appeal be based on the production of new evidence, the Appeals Panel may order a new hearing of the complaint by a new Hearing Panel.

29.16 The decision of the Appeals Panel shall be signed, dated and reasoned, and shall be sent to both parties and the Advisor.

29.17 The decision of the Appeals Panel shall be final.

30. Files of Formal Complaints Against Students

The Advisor shall maintain a file of all formal complaints processed. The file shall include the written complaint, the decision of the Hearing Panel, and the decision of the Appeals Panel, if any. If a settlement is reached prior to a hearing, the general substance of the settlement shall be included in the file. If the complaint is withdrawn at any stage of the formal process, a notation to that effect shall be recorded, but all information identifying the parties shall be removed from the record.

*Section VII:
Procedures for
Adjudicating
Formal Complaints
Made Against
Faculty, Administrative
or Support Staff
Members, or Members
of the Administration*

31. General Rules

- 31.1 The present section applies to complaints filed by Members of the University against faculty, administrative or support staff members, or against members of the administration.
- 31.2 The application of the present section to a unionized respondent is subject to the provisions of the respondent's collective agreement and to the limitations described in articles 8 and 10 of the present Code.

32. Initiating a Formal Complaint Against a Faculty, Administrative or Support Staff Member, or Against a Member of the Administration

- 32.1 A Member of the University who wishes to file a formal complaint against faculty, administrative or support staff members, or against members of the administration shall contact the Advisor.
- 32.2 The Advisor shall provide the complainant with a copy of this Code and shall inform the complainant of the following:
 - a) the required format for submitting the complaint, which must be made in writing, signed and dated, and must identify the complainant and the respondent and the precise nature of the complaint, including the provision(s) of the Code under which the complaint is being filed;
 - b) the right of the complainant to consult any person in the preparation of his or her complaint, and to be accompanied or represented by any Member of the University during the process of resolution. If the complainant is a student, he or she may opt to be accompanied by a student advocate obtained through the services of Advocacy and Support Services or the CSU Student Advocacy Centre. If the complainant is a member of a union or an employee association, he or she may opt to be accompanied by a union or association representative.
- 32.3 If the respondent is a member of a union, the Advisor shall inform the complainant of any delays regarding disciplinary procedures, which may be prescribed in the respondent's collective agreement.
- 32.4 Upon receiving a formal complaint under the present article, the Advisor shall transmit the complaint to the authority to whom the complaint must be submitted under the terms of the respondent's collective agreement or the relevant University policy (the "Authority"), with all the relevant information and documentation. If the respondent is a member of a union or association, a copy of the complaint and of the relevant information and documentation shall also be sent by the Advisor to the union or association.

33. Powers and Duties of the Authority

- 33.1 Upon receiving the complaint and all the relevant information and documentation from the Advisor, the Authority shall send a copy of these documents to the respondent.
- 33.2 The Authority shall also inform the respondent of his or her right to consult any person in the preparation of his or her case, and to be accompanied or represented by any member of the University during the process of resolution. If the complainant is a member of a union or an employee association, he or she may opt to be accompanied by a union or association representative.
- 33.3 The Authority shall then take the necessary steps to resolve the matter in such a manner as to respect the principles of natural justice and the procedures of any collective agreement or University policy, which may apply.
- 33.4 More specifically, the Authority may:
 - a) meet with the complainant and the respondent on an individual basis;
 - b) have access to all official files and information as are required to fulfil his or her functions, the whole subject to the applicable legislation;
 - c) meet any individual who might, in his or her opinion, provide information relevant to the complaint;
 - d) consult any University officers (Executive Director of Human Resources and Employee Relations, Legal Counsel, etc.) or outside counsellors as may be required.
- 33.5 All information, whether in writing or in any other form, obtained by the Authority in the performance of his or her duties shall be strictly confidential.
- 33.6 Upon completing his or her investigation, the Authority may dismiss the complaint, impose a disciplinary measure against the respondent, or take any other action deemed appropriate in view of the result of the investigation.
- 33.7 When the matter has been decided by the Authority, normally within ten (10) Days after receiving the complaint, the Authority shall notify in writing the complainant, the respondent, and the Advisor of the general substance of the decision or action that was taken as a result of

the complaint. If the respondent is a member of a union or association, a copy of the decision shall also be sent by the Authority to the union or association.

If the Authority has not sent such notice to the complainant within fifteen (15) Days after receiving the complaint or has not sent a notice to the complainant requesting an additional delay, the complainant shall have the right to request the Advisor to transmit the complaint to the President. In such a case, the President shall, within ten (10) Days after receiving the complaint, notify in writing the complainant, the respondent, the Advisor, and the Authority of the general substance of the decision or action taken as a result of the complaint.

- 33.8 If the decision or action taken by the Authority does not constitute a disciplinary action as defined by the relevant collective agreement, University Policy, or this Code, as the case may be, the Authority or the Executive Director of Human Resources and Employee Relations shall monitor compliance by the respondent. Once satisfied that compliance has been effected, the Authority shall so inform the complainant and the Advisor.
- 33.9 If disciplinary action is taken and is subsequently overturned by a higher authority or by grievance and arbitration procedures, the complainant and Advisor shall be notified.

34. Files of Formal Complaints Against Faculty, Administrative and Support Staff Members, or Members of the Administration

The Advisor shall maintain a file of formal complaints received against faculty, administrative or support staff members, or members of the administration, which shall summarize the substance of the consultation with the complainant, the record of resolution as supplied by the authority and information that a sanction has been overturned through grievance or arbitration, if this is the case.

*Section VIII:
Urgent Situations*

35. Reporting and Responding to Urgent Situations

- 35.1 Members of the University who are faced with an urgent situation involving threatening or violent conduct, where there is reasonable cause to believe that the safety or security of persons may be threatened, shall immediately contact the Security Department. The Security Department shall take whatever reasonable action is necessary to secure the safety of persons, and shall immediately alert the Advisor. In such case, the Advisor shall be guided by the Protocol on the Co-ordination of Urgent Cases of Threatening or Violent Conduct.
- 35.2 Members of the University shall forthwith report to the Advisor any conduct which they have reasonable cause to believe potentially threatens the safety or security of persons. The Advisor shall assess the situation as specified in the Protocol on the Co-ordination of Urgent Cases of Threatening or Violent Conduct, consult experts as necessary, and make recommendations as to any further action appropriate in the circumstances.
- 35.3 Any Member of the University who is called to a Team meeting under the Protocol on the Co-ordination of Urgent Cases of Threatening or Violent Conduct shall respond promptly.

36. Disciplinary Officers

- 36.1 The Members of the University listed below are hereby constituted "Disciplinary Officers". With respect to matters under this Code, the Disciplinary Officers shall have the powers, duties, and obligations conferred upon them in the present Code as well as any powers reasonably incident thereto:
- a) the President and Vice-Chancellor;
 - b) the Provost and Vice-President;
 - c) the Vice-Presidents;
 - d) the Academic Deans.

37. Temporary Exclusion of a Student by a Disciplinary Officer

- 37.1 The Disciplinary Officers may require any student to immediately leave and remain away from the campus or a part thereof, as the case may be, for a period not exceeding two (2) Days, if to their personal knowledge or based upon reliable information, they have reasonable grounds to believe that the student's continued presence on campus:
- a) is detrimental to the pursuit of works and studies in a safe and civil environment; or
 - b) constitutes an immediate threat to the safety or security of others.
- 37.2 No student shall be barred from taking any examination or submitting any academic paper or report because of this provision but the Disciplinary Officer may make special arrangements as to the time and place for the completion and/or submission of any academic paper, assigned work or project, or laboratory test, work or report, or writing of any exam.
- 37.3 A Disciplinary Officer shall immediately advise the Registrar, the Secretary, the Dean of Students, the relevant Academic Dean(s), the Advisor, and the Security Department of the temporary exclusion of a student under this provision.
- 37.4 Any temporary exclusion ordered under the present section shall not be deemed to be in lieu of other proceedings under this Code should the conduct for which exclusion is ordered also constitute an offence under article 18 of this Code.

- 38. Exclusion of a Student by the President**
- 38.1 The President or Acting President may Suspend a student, exclude the student from any University premises, and take any other steps that may be appropriate where: (a) the student presents a clear and present danger to the safety of persons or to the activities of the University as a whole or any of its Members or groups of Members; (b) the student has on one or more occasions presented a clear danger to the safety of persons or to the activities of the University as a whole or of any of its Members or groups of Members and whose identity or action has only recently been identified; or (c) the student's actions are of such a serious nature that they create an intimidating and hostile environment for work or study or constitute a serious threat to the ability of the University and its members to carry out the University's functions.
- 38.2 In such cases, the President or Acting President shall provide the student with a written suspension notice and shall concurrently forward a copy of the suspension notice to the Registrar, the Secretary, the Dean of Students, the relevant Academic Dean(s), the Advisor, and the Security Department. The President or Acting President shall inform the student of the student's right to consult an advocate and shall also provide the student with:
- a copy of any supporting information;
 - a copy of the Code.
- 38.3 In such a case, the President or Acting President shall immediately lay a complaint against the student under Section VI of this Code. The regular delays of this Code shall not apply and a hearing into the complaint shall be held within ten (10) Days of the suspension order. The President or Acting President may designate another Member of the University to represent him or her at the hearing. The Hearing Panel shall render its decision and inform the parties within three (3) Days of the hearing. If no hearing into the complaint has been held within fifteen (15) Days of the suspension order for reasons other than the reason contemplated under sub-article 38.4, the suspension order shall be suspended until the Hearing Panel shall reimpose the suspension.
- 38.4 Should the suspended student be unable to attend the hearing within the prescribed delay, he or she shall notify the Secretary as soon as he or she is able to attend a hearing. Upon such notification, the Secretary shall convene a hearing as soon as possible.
- 38.5 In the event that the Hearing Panel determines that the original complaint was unfounded, that decision shall not invalidate the President's or Acting President's prior action; however, every effort shall be made to remedy any academic disadvantage that the student may have experienced as a consequence of the temporary suspension.
- 38.6 Upon the lifting of the Suspension, the Secretary shall notify the Registrar, the Dean of Students, the relevant Academic Dean(s), the Advisor, and the Security Department.
- 39. Temporary Exclusion of a Member of the Faculty or Administrative and Support Staff**
- 39.1 Where a member of the faculty or administrative and support staff presents a clear and present danger to the safety or security of persons or to the activities of the University as a whole or of any of its individual Members, the matter shall be dealt with according to the provisions of the relevant collective agreement or University Policies.
- 39.2 A Member against whom such action is taken may seek recourse through the grievance procedures of the relevant collective agreement or the grievance procedures contained in University Policies, where they exist.

*Section IX:
Appointment and
Functions of the
Advisor*

- 40. The Advisor**
- 40.1 The Advisor on Rights and Responsibilities shall be appointed by the President upon the recommendation of an advisory committee composed of representatives of the University constituencies including at least one (1) student, struck for this purpose. The Advisor shall report to the President.
- 40.2 The appointment shall be made for an initial term of two years, renewable for further terms of five years. During the fourth year of each such term, the President shall appoint an appraisal committee composed of representatives of the University constituencies including at least one (1) student, which shall review the operations of the Office of Rights and Responsibilities and make recommendations to the President. This review shall include, but shall not be limited to, consultations with the internal community as well as external appraisal.
- 41. The Office of Rights and Responsibilities**
- 41.1 The Advisor shall direct the operations of the Office of Rights and Responsibilities, and carry out all duties described in this Code.
- 41.2 The Advisor shall submit an annual report to the President by September 30 of each year. The report shall detail the activities of the Office of Rights and Responsibilities, including statistics on all complaints received, and make recommendations, as necessary, with regard

to either the Code of Rights and Responsibilities or the operations of the Office of Rights and Responsibilities. The annual report shall be published in the University's newspaper and shall be submitted, for information purposes, to the Senate and Board of Governors.

42. Complaints

If a Member considers that the Advisor has failed to follow the procedures outlined in this Code, with respect to any matter to which the Member has been a party, he or she may submit a written complaint, detailing the alleged procedural failure, to the President. The President shall investigate the complaint and inform the Member of the results of the investigation, normally within fifteen (15) Days of the receipt of the written complaint by the President.

*Section X:
Miscellaneous*

43. Confidential Nature of Files

All complaint files maintained by the Advisor shall be confidential and accessible only to the staff of the Office of Rights and Responsibilities. Such files shall be destroyed according to a retention schedule determined in accordance with provincial legislation.

44. Delays

In the calculation of any delay set out in the Code, the months of July and August shall not be taken into account; however, in the case of a hearing before a Hearing Panel or an Appeals Panel that commenced before July 1, the regular delays set out in this Code shall apply.

45. Notices

Any written notice to any person shall be sent by courier, e-mail, or fax to the last address or fax number provided by said person to the University and shall be deemed to be received one (1) Day after delivery.

46. Language

Any party or witness participating in a hearing before a Hearing Panel or an Appeals Panel may make their presentation in either English or French.

47. The Secretary-General

The overall responsibility for the implementation and recommended amendments to the Code shall rest with the Secretary-General.

17.40

OMBUDS OFFICE

Ombudsperson
KRISTEN ROBILLARD

Location

Sir George Williams Campus
Ombuds Office
GM Building, Room: 1120
514-848-2424 ext. 4964

TERMS OF REFERENCE OF THE OMBUDS OFFICE

Scope

Scope

1. The Ombuds Office shall be independent of all existing administrative structures of the University. The Ombudsperson may help to resolve problems informally and may inquire into any University-related concerns or complaints. As well, he or she may inquire into the application of any policy, rule or procedure of the University. However, he or she may not inquire into the application or interpretation of a collective agreement, nor into the alleged violation of the duty of fair representation against a certified union. The Ombudsperson may make any recommendations he or she deems appropriate with regard to resolving problems or improving policies, rules or procedures. However, he or she shall have no actual authority to impose remedies or sanctions, or to enforce any policy, rule or procedure.
-

Functions

Functions of the Ombuds Office

2. Specifically, the Ombudsperson shall:
 - a) inform University members about existing policies, rules and procedures, and advise them as to the appropriate channel of redress for any concern or complaint they may have;
 - b) assist University members to resolve complaints informally and quickly;
 - c) at his or her discretion, conduct an independent and objective inquiry into complaints when normal channels of recourse have been exhausted;
 - d) explain decisions taken by University decision-makers when complaints are not substantiated;
 - e) at his or her discretion, recommend solutions when complaints are found to be valid;
 - f) bring to the attention of those in authority any policies, rules or procedures which appear unclear or inequitable or which might jeopardize the rights or freedoms of any members of the University. The Ombudsperson may suggest changes to the existing policies, rules or procedures or offer advice on the development of new policies, rules or procedures.

Special Concerns of the Ombuds Office

3. In dealing with inquiries, the Ombudsperson shall be concerned that all members of the University are dealt with and deal with others fairly, and more specifically that:
 - a) decisions affecting members are made with reasonable promptness;
 - b) procedures used to reach decisions are adequate and the criteria and rules upon which such decisions are based are appropriate;
 - c) procedures and criteria used in making decisions are clearly communicated to those affected.
-

Procedures

Procedures

4. The Ombudsperson shall have immediate access to such University records, reports or documents as are required to fulfil his or her functions. Requests for such access shall receive priority from all members.
5. If the Ombudsperson decides to inquire into a matter, he or she shall make every effort to consult the relevant parties and give such parties the opportunity to reply, should they so wish.
6. Upon the conclusion of an inquiry, the Ombudsperson shall advise all parties to a complaint of his or her findings and any recommendations that he or she has formulated.
7. In addition, the Ombudsperson may bring his or her findings to the attention of those in authority and make whatever recommendations he or she deems appropriate and to whomever within the University he or she feels should receive them. Such recommendations may bear either on the

actions or decision of an individual or a group, or on the policies, rules and procedures which gave rise to them. If, upon receipt of such findings or recommendations, a University authority proceeds to disciplinary action in order to resolve the matter, the procedure of any relevant University policy or collective agreement shall be followed.

8. The Ombudsperson may refuse to take up any case where he or she judges his or her intervention would be inappropriate and may withdraw from a case if continued involvement is ill-advised.
9. If the Ombudsperson refuses to take up a case or withdraws from a case, he or she shall, on request, provide the applicant with a written statement of the reason.
10. The Ombudsperson shall avoid involvement in cases where there may be conflict of interest.

Confidentiality

11. Should the pursuit of any inquiry necessitate the disclosure of details that identify an applicant, the applicant shall be informed. Any disclosure shall be limited to those who have a need to know.
12. Should an applicant decide to withdraw an application in order to protect his or her anonymity, the Ombudsperson shall respect this decision.
13. The Ombudsperson shall respect the confidentiality of any confidential information or materials to which he or she has access.
14. Should the Ombudsperson consider that the response to his or her recommendation has been unsatisfactory, he or she shall be entitled to make the recommendation public, provided always that, subject to Article 11, the confidentiality of the applicant is respected.

Files

15. The Ombudsperson shall maintain suitable records of complaints, findings and recommendations which shall be accessible only to the staff of the Ombuds Office. Such files shall be destroyed according to a retention schedule determined in accordance with provincial legislation.

Appointment of Ombudsperson

16. The Ombudsperson shall be appointed by the President upon the recommendation of an advisory committee struck for this purpose. The Ombudsperson shall report to the President.
17. The appointment shall be made for an initial term of two years, renewable for further terms of five years. During the fourth year of each such term, the President shall appoint an appraisal committee which shall review the operations of the Ombuds Office. This review shall include, but not be limited to, consultations within the internal community as well as external appraisal.
18. The Ombudsperson shall submit an annual report to the President by September 30 of each year. The report shall detail activities of the Ombuds Office, including statistics on complaints received, and shall make recommendations, as necessary. The President shall ensure that the appropriate administrators consider and respond to the recommendations contained in the report.
19. The annual report shall be published in the University's newspaper.

Complaints Relating to the Operations of the Ombuds Office

20. If a member considers that an Ombudsperson has committed a procedural or substantive violation of these terms of reference, with respect to any matter to which the member has been a party, he or she may submit a written complaint, detailing the alleged violation, to the President. The President shall investigate the complaint and inform the member of the results of the investigation.



student life and student services

18.1 STUDENT LIFE AND STUDENT SERVICES

- 18.1.1** Student Services' Mission Statement
- 18.1.2** Concordia Council on Student Life (CCSL)

18.2 DEAN OF STUDENTS

- 18.2.1** Social and Cultural Activities
- 18.2.2** Child Care
- 18.2.3** Multi-Faith Chaplaincy
- 18.2.4** Peer Support Program

18.3 ADVOCACY AND SUPPORT SERVICES

- 18.3.1** Access Centre for Students with Disabilities
- 18.3.2** International Students Office
- 18.3.3** Centre for Native Education
- 18.3.4** Student Advocate Program
- 18.3.5** Legal Information Services

18.4 COUNSELLING AND DEVELOPMENT

- 18.4.1** Student Success Program Centre
- 18.4.2** Student Success Resource Centre
- 18.4.3** Services for New Students
- 18.4.4** Counselling and Psychological Services
- 18.4.5** Student Learning Services
- 18.4.6** Career and Placement Services

18.5 HEALTH SERVICES

- 18.5.1** Services
- 18.5.2** Health Insurance
- 18.5.3** Health Promotion
- 18.5.4** Loyola Health Services
- 18.5.5** Medical Conditions and Academic Responsibilities
- 18.5.6** Location and Hours of Operation
- 18.5.7** Residence and Off-Campus Housing

18.6 FINANCIAL AID AND AWARDS

- 18.6.1** *Gouvernement du Québec* Student Loans and Bursaries
- 18.6.2** Federal and Provincial Student Loans and Bursaries
- 18.6.3** Concordia University Financial Aid
- 18.6.4** Concordia University Scholarships and Bursaries
- 18.6.5** Awards Offered by External Organizations
- 18.6.6** International Students

18.7 RECREATION AND ATHLETICS

section 18



18

STUDENT LIFE AND STUDENT SERVICES

Associate Vice-President, Enrolment and Student Services
ROGER CÔTÉ

Director of Advocacy and Support Services
BRIGITTE ST-LAURENT

Director of Counselling and Development
SUP MEI GRAUB

Dean of Students
ELIZABETH MOREY

Director of Health Services
MELANIE DREW

Director of Recreation and Athletics
KATIE SHEAHAN

Director of Financial Aid and Awards
LAURA STANBRA

18.1 STUDENT LIFE AND STUDENT SERVICES

18.1.1 *Student Services' Mission Statement*

"The mission of Concordia University's Student Services is to provide a network of expertise, resources, and programs to facilitate and enhance students' academic success and their personal development. We advocate for students, support diversity, and encourage a strong sense of community. We are committed to adapting our practices to meet current and evolving needs of the University community, in partnership with students, faculty, and staff."

Approved by Concordia Council on Student Life • November 2001

18.1.2 *Concordia Council on Student Life (CCSL)*

The Council, a parity body responsible for Student Services programs, policies and budgets, studies the range of student life on both campuses. It is composed of ten students, two faculty members, and eight members of the Student Services staff. The Dean of Students chairs the Council. Its meetings are open to all members of the University community.

18.2 DEAN OF STUDENTS

Loyola Campus
Administration Building, Room: AD 121
514-848-2424 ext. 4239

Sir George Williams Campus
Hall Building, Room: H 637
514-848-2424 ext. 3517

The Dean of Students Office is the principal resource at the University for the interpretation and regulation of policies and procedures as these apply to the non-academic aspects of student life. Student associations and groups, of whatever nature, are one of the primary means by which students can relate meaningfully to the institution. By providing liaison with and support to student groups and their governing bodies, the Dean of Students encourages students in the conduct of their own collective affairs, and facilitates the growth of student associations and the active involvement in them by students.

<http://deanofstudents.concordia.ca>

18.2.1 *Social and Cultural Activities*

Social and Cultural Activities

A wide variety of social and cultural events is presented regularly by various student organizations and departments. The Concordia orchestra and choir are open to students, and they perform several concerts annually. There is a students' cafeteria and pub on each campus, as well as lounge facilities.

18.2.2 *Child Care*

Child care services are offered for children of students, faculty, and staff.

On the Sir George Williams Campus, parents may enrol children 18 months to five years of age in the *Centre de Petit Enfant Concordia*. Application forms and details may be obtained at the Information Desk in the Hall Building or at the daycare.

La Garderie Les P'tits Profs is located on the Loyola Campus. Parents may enrol children three months to five years. For more information about this child care service, please contact the centre directly.

Financial assistance for child care expenses is available for eligible students through the Quebec Financial Aid — Loans and Bursaries program and through the *ministère de la Famille et de l'enfance*.

Loyola Campus
La Garderie Les P'tits Profs
Annex BB
514-848-2424 ext. 7788
<http://alcor.concordia.ca/~glpp/home.html>

Sir George Williams Campus
Centre de Petit Enfant Concordia
Annex DC
514-848-2424 ext. 8789

18.2.3
Multi-Faith
Chaplaincy

Multi-Faith Chaplaincy is a service department that nurtures faith, spirituality, and social responsibility. It is respectful of all faiths and spiritual paths, and offers workshops, discussion groups, meditations, religious services, retreats, volunteer and outreach opportunities and social activities. Students can meet with chaplains of various religious traditions for personal conversations, particularly concerning issues of faith, spirituality, values, and ethics, or in times of crisis and transition. Multi-Faith Chaplaincy also seeks to foster understanding between faiths and hosts events throughout the year to engage the Concordia community in inter-faith encounters, such as multi-faith fairs or the annual Graduation Celebration of Many Faiths. It has a lounge in its downtown offices which is a welcoming place to study, meet others, and have stimulating conversations.

Loyola Campus
Administration Building, Room: AD 130
514-848-2424 ext. 3588

Sir George Williams Campus
Annex Z, Room: First floor and basement level
514-848-2424 ext. 3593

<http://deanofstudents.concordia.ca/chaplaincy>

18.2.4
Peer Support Program

The Peer Support Program is a student-staffed listening, information, and referral centre for Concordia students. The service is free and confidential. Peers receive intensive and ongoing training so they can help students clarify problems, provide active listening, and make appropriate referrals.

Loyola Campus
T.B.A.

Sir George Williams Campus
Annex Z, Room: 03
514-848-2424 ext. 2859

<http://deanofstudents.concordia.ca/peersupport/>

18.3 ADVOCACY AND SUPPORT SERVICES

Advocacy and Support Services offers a wide range of services to assist students in making the most of their opportunities at Concordia. Experienced staff from the Centre for Native Education, International Students Office, Legal Information Services, Access Centre for Students with Disabilities, and the Student Advocate Program is available to help students achieve academic success.

Loyola Campus
Administration Building, Room: AD 131
514-848-2424 ext. 3536

Sir George Williams Campus
Hall Building, Room: H 645
514-848-2424 ext. 3509

<http://supportservices.concordia.ca>

18.3.1
Access Centre
for Students
with Disabilities

Students with visual or hearing impairments, mobility limitations, or learning disabilities may require special services while studying at Concordia. Services include orientation sessions, individual academic support and advising, alternative media transcription, volunteer reader services, and classroom relocation for mobility-impaired students. Tape recorders, FM personal systems, and personal computers with voice and Braille output are available for on-campus use. All students with disabilities are advised to contact the coordinator as early as possible for assistance in meeting their special needs. In particular, students using interpreter services, attendant care, or requiring identification letters to be sent to their professors from the Access Centre for Students with Disabilities must contact the office prior to the beginning of classes.

Special
Accommodations
for Examinations

Students requiring special accommodation for examinations must contact the department at the beginning of each semester. All arrangements are contingent upon submission of appropriate documentation. It is the responsibility of the student to submit recent documentation, request exam accommodations, and verify specific exam arrangements with the Access Centre for Students with Disabilities. All accommodations must be exam specific as well as disability specific.

Responsibilities of the University

1. The University acknowledges that qualified students with disabilities have a right, subject to the University's capacity to respond to the request and the University's financial and other resource constraints, to:
 - a. full access to all educational programs of the University;
 - b. full access to the educational process and learning environment (including, but not limited to, classes, laboratories, and libraries);
 - c. full access to the University campuses; and
 - d. full access to University facilities and services.
2. The University is committed to fostering, creating, and maintaining both an attitudinal as well as a barrier-free environment for qualified students with disabilities, including:
 - a. providing support services, subject to its capacity to respond to the request and its financial and resource constraints;
 - b. promoting a respectful attitude for students with disabilities; and
 - c. promoting awareness of the needs and abilities of students with disabilities; and
 - d. informing the University community about the services available to qualified students with disabilities and seeking to ensure that such services are delivered in ways that promote equity.
3. The University acknowledges that qualified students with disabilities have a right to assistance and to reasonable accommodation(s) that is individualized with respect to scope and pace, consistent with the student's needs and the University's legitimate academic standards, and subject to the University's capacity to respond to the request and the University's financial and other resource constraints.
4. Where warranted and without compromising its academic standards and subject to the criteria outlined in article 3, the University shall modify, as appropriate, and in close consultation with the instructor, one or more of the following for a qualified student with a disability:
 - a. workload;
 - b. examination procedures;
 - c. other course requirements; and
 - d. scholarship and other financial assistance requirements.
5. In order to assist in fulfilling the University's commitment, all newly admitted students shall receive on their letter of acceptance a statement indicating that if they have a learning disability or any other disability for which they may require reasonable accommodation or other assistance, they should contact the Access Centre for Students with Disabilities to ascertain the degree to which their needs can be met.
6. The University shall take all reasonable steps to consult students with disabilities as fully as possible about decisions relating to matters affecting them.

Responsibilities of Students with Disabilities

7. Students with disabilities requesting assistance or reasonable accommodation(s) from the University shall:
 - a. initiate contact with the Access Centre for Students with Disabilities and make the nature of their disability and/or their needs known. The initial contact may take place at or prior to admission or at any time during the student's course of study; and
 - b. provide appropriate documentation in order to be considered for assistance or reasonable accommodation(s). The Access Centre for Students with Disabilities may request additional documentation from students if the determination of a disability is inconclusive, if the documentation does not support the assistance or reasonable accommodation(s) requested, or if the documentation is not current. The request for assistance or reasonable accommodation(s) and supporting documentation must be provided in a timely manner so that needs can be assessed and assistance or reasonable accommodation(s) planned and put in place, if appropriate; and
 - c. be expected to undertake a reasonable measure of self-advocacy.
8. While the Access Centre for Students with Disabilities is the administrative unit responsible for the implementation of this policy, this responsibility is shared by all members of the University community, including all faculty members, administrative and support staff, and management personnel.
9. A Review Committee shall be established by the President every five years to review the scope and application of this policy. The review shall include, but not be limited to, consultations within the University community, including the users of the Access Centre for Students with Disabilities.

Location

Loyola Campus
Administration Building, Room: AD 131
514-848-2424 ext. 3536/Voice & TDD

Sir George Williams Campus
Hall Building, Room: H 580
514-848-2424 ext. 3525/Voice & TDD

<http://supportservices.concordia.ca/disabilities>

18.3.2
*International Students
Office*

The International Students Office is responsible for providing special programs and services to promote and support the growth and development of International students. For details on immigration and documentation requirements, health insurance, and other important information, see §19.

Sir George Williams Campus
Hall Building, Room: H 653
514-848-2424 ext. 3515

<http://supportservices.concordia.ca/iso>

18.3.3
*Centre for Native
Education*

The Centre for Native Education offers support services and resources to First Nations, Métis, and Inuit students at Concordia. The Centre is a welcoming space where Native students can meet to plan social activities or just relax between classes. Staff is available to address individual needs and provide support and encouragement for all Native students at Concordia to continue with their program and achieve their highest potential. The Centre also seeks to increase awareness of Native issues and increase the knowledge of Native cultures among the Concordia community. The Centre has a documentation centre that all Concordia students, faculty, and staff can consult. Native students may access the Centre's programs and services, including study rooms and computers, tutoring, and photocopy services.

Sir George Williams Campus
Hall Building, Room: H 641
514-848-2424 ext. 7327

<http://supportservices.concordia.ca/nativecentre>

18.3.4
*Student Advocate
Program*

Trained and experienced Student Advocates support students who need representation at academic misconduct interviews, before a hearing panel regarding charges related to the *Code of Conduct (Academic)*, the *Code of Rights and Responsibilities*, or other administrative processes. The Student Advocate Program is a free, confidential service for all Concordia students, both undergraduate and graduate.

Loyola Campus
Administration Building, Room: AD 131
514-848-2424 ext. 3992

<http://supportservices.concordia.ca/studentadvocateprogram/>

18.3.5
*Legal Information
Services*

Advocacy and Support Services offers free and confidential legal information to Concordia students through its Legal Information Services. This service exists to help students understand their legal rights and obligations, and can provide them with information relating to an array of legal issues. Advocacy and Support Services believes that students who deal with legal matters in an informed and timely manner will be better able to concentrate on academic goals and objectives.

Loyola Campus
Administration Building, Room: AD 131
514-848-2424 ext. 4960

<http://supportservices.concordia.ca/legalinformationservices/>

18.4 COUNSELLING AND DEVELOPMENT

Counselling and Development offers services to undergraduate students on an individual basis as well as in groups. Students benefit from Counselling and Psychological Services, Student Learning Services, Career Services, and services provided by Services to New Students and the Student Success Program Centre. These services are provided by professional staff and are available on both campuses.

Loyola Campus
Administration Building, Room: AD 103
514-848-2424 ext. 3555

Sir George Williams Campus
Hall Building, Room: H 440
514-848-2424 ext. 3545

<http://cdev.concordia.ca>

18.4.1
*Student Success
Program Centre*

The Student Success Program Centre (SGW-H 481 and LOY-AD 101) offers a wide range of programs and services designed to support student success.

- Student Success Mentor-tutors (upper-year Concordia students) offer personalized contact, information about university life and services, subject-specific tutoring, and strategies for success.
 - Referral service connects students to all Concordia services, according to each student's individual needs.
 - Resource service provides information about and access to many Counselling and Development programs, including workshops, peer assistance programs, and special events.
 - Outreach activities provide students in many areas of the University with information and resources to promote success.
 - Educational counselling offers students guidance and answers to questions related to educational issues such as courses, choice of program, career planning, and campus resources.
 - The Supplemental Instruction Program (SIP) provides peer-facilitated study groups to help students in specific courses improve understanding and learning strategies.
-

18.4.2
*Student Success
Resource Centre*

The Student Success Resource Centre on the Loyola Campus (AD 103-5) provides a relaxed and comfortable setting where students can access both online and print resources that support the services available at Counselling and Development, including materials and information on:

- Career exploration and job search preparation
 - Study skills and learning strategies
 - Personal development and life management skills
 - Dictionaries, grammar references, writing style manuals, science and math guides
 - Graduate school guides
 - Practice guides for GRE, TOEFL, MELAB, GMAT, LMAT, and MCAT
-

18.4.3
*Services for
New Students*

Services for New Students helps new students make a successful transition to university by providing a welcoming environment and support throughout the first academic year.

- Orientation programs such as Discover Concordia and the Graduate Student Orientation provide new students with the opportunity to meet members of the university community and learn about the vast network of support services and university resources aimed at enhancing student success.
 - Start Right provides an orientation to university learning, including practical tips, strategies, and techniques to help students meet the demands of university-level study.
 - The Student Success Check-up & Orientation helps students identify their own strengths and possible weaknesses and create a personal action plan for university success.
 - First-Year Experience Seminars, Student Experience Seminars, and Graduate Experience Seminars help students develop a solid foundation of skills and knowledge needed to achieve their goals.
 - The Program for Leadership and University Success (PLUS) provides new students with positive role models and the ongoing support of a Student Success mentor. PLUS also encourages all students to become actively involved in the university community and develop leadership skills.
 - The Bridge Magazine is a publication specifically for new students. It contains information and advice to help new students get the most out of their first year at Concordia.
-

18.4.4
*Counselling and
Psychological Services*

Counselling and Psychological Services provides opportunities for students to:

- **Work with a counsellor/psychologist:**
 - deal with personal concerns (such as depression, anxiety, family, relationships, loss, sexuality, body image)
 - increase self-esteem and self-awareness
- **Work with a career counsellor:**
 - learn about and actively engage in the necessary steps of the career-planning process
- **Develop necessary life skills through individual counselling appointments and group workshops:**
 - stress management
 - effective communication
 - assertiveness training
 - conflict resolution
 - leadership and team building
- **Access the Test Lab:**
 - learn more about themselves through psychological testing
 - use vocational testing to clarify career and educational goals
- **Take advantage of other counselling services:**
 - learning disability and ADD/ADHD screening
 - educational counselling and daily drop-in appointments for brief educational questions
 - immediate response to students who are in crisis
 - information fairs and outreach activities on mental health and student success

See the online resources at <http://counselling.concordia.ca>.

Confidentiality is assured.

18.4.5
*Student Learning
Services*

Student Learning Services offers help to students making the transition to university learning, and to all students who want to improve their learning efficiency.

- Learning assistance is offered by Learning and Study Skills Specialists who help students on an individual basis to access and develop academic skills appropriate to their course and discipline.
- Writing assistance is offered by peer Writing Assistants who help individual students of all abilities and at any stage of the writing process to improve their writing, in either English or French, including generating and organizing ideas, overcoming writer's block, and revising and editing.
- Math study groups are facilitated by peer Math Assistants who help students succeed in basic math courses and deal with math anxiety.
- Study Skills workshops are offered free of charge to help students improve their academic skills in reading, writing research papers, making oral presentations, developing problem-solving skills, note-taking, preparing for and taking different types of exams, improving memory and concentration, and managing time.
- Conversation groups and TalkTimes (one-hour small group conversation sessions) are led by peer assistants who help students practise their English speaking skills.
- French conversation groups (Jazz-ons), led by peer assistants fluent in French, help students improve their French speaking skills.
- Strategic Learning (SL) study groups, facilitated by a trained student leader, are offered for certain difficult courses.

See the online resources at <http://learning.concordia.ca>.

18.4.6
*Career and Placement
Services*

Career and Placement Services helps students to:

- Connect with employers through job postings, on-campus recruiting, and career fairs
- Explore career options in their field of study at Career Panel Discussions
- Improve their job-hunting techniques:
 - meet with career professionals to improve their résumé and cover letter, prepare for job interviews, and develop a networking strategy
 - attend workshops
 - research employers and labour-market trends
- Access print and electronic sources through the Career Resource Centre:
 - graduate program and application guides
 - study and work abroad resources
 - funding directories for university study
 - career books and recommended websites for students' program

Visit caps.concordia.ca to learn more about the online resources available.

18.5 HEALTH SERVICES

Health Services is an on-campus clinic and health promotion centre. The staff, which includes nurses, general practitioners, consulting psychiatrists, psychotherapists, support staff, and health educators, work collaboratively to provide students with high-quality, personalized health care and health education.

All services are strictly confidential. Information can only be released with the student's written authorization. This policy applies regardless of whether the information is requested by family members, community physicians, therapists or University officials.

18.5.1
Services

Health Services offers a wide variety of services including:

Clinical Services

- Medical evaluation, treatment, and consultation
- Asthma teaching clinic
- General medical care for injuries and illnesses
- Gynecology, birth control, emergency contraceptive pill, pregnancy tests, and pregnancy continuation or abortion referrals
- Sexually transmitted illness assessment, cultures, and treatment
- HIV non-nominal testing, which includes pre- and post-test counselling
- Consultation and referrals for substance abuse

Health Promotion and Wellness

- Preventive medical care, including immunizations and annual physicals
- Nutrition and body image counselling and education
- Drug and alcohol education
- Stress management

- Wellness education
- Safer sex education
- Smoking cessation

Mental Health

- Psychiatry, on consultation
- Short-term psychotherapy

For those services that are not offered, such as dental care and eye care, Health Services can provide the names of resources that are located in the vicinity.

How to Use Health Services: Using Health Services is easy. Students may call ahead to make an appointment for predictable issues or concerns such as a physical examination, prescription renewal, or health education. For more urgent health-care needs, students may come into one of the walk-in clinics where patients are seen on a first-come, first-served basis.

18.5.2 Health Insurance

Most of the services offered at Health Services are free of charge, provided students are currently registered and have valid health insurance. For visits with a nurse or health educator, students will be asked to show their Concordia I.D. card. For physician visits, proof of Quebec Health Insurance plan coverage, coverage from another province, or International Student Insurance is required. If a client of Health Services does not have valid health insurance, he or she will be required to pay for a physician visit. Both Health Services locations can provide students with information pamphlets on how to obtain a valid health card or how to maintain coverage while studying outside their province of origin.

Out-of-Province Students: To retain health coverage while studying at Concordia, out-of-province students must notify their provincial health authority of their status as a student in Quebec. This must be done at the beginning of each academic year. Information on how to do this can be obtained through Health Services or on their website. Unlike clinics in the community, International and out-of-province students are not charged additional fees for their medical care. Students are therefore encouraged to use Health Services for their health-care needs.

18.5.3 Health Promotion

Health Services offers programs and activities in health education, health promotion, and informed health care consumerism. Health Services maintains a lending library stocked with hundreds of books, relaxation tapes, videos, and DVDs. The health educators, along with other Health Services staff, bring health promotion information to students through the monthly newsletter *Health Notes*; the regular health booth on the downtown campus; monthly brown bag lunch-time lectures; classroom presentations; and presentations for student organizations. A calendar of events can be found on the Health Services website. Discount prices are offered on a wide variety of items: condoms, dental dams, latex gloves, finger splints, first aid kits, band-aids, ace bandages slings, and oral thermometers.

18.5.4 Loyola Health Services

Loyola Health Services ensures access to health care and health information on the Loyola Campus. The centre is staffed by a nurse who can provide many of the services offered at SGW Health Services. Appointments to visit a physician are available at the Loyola Campus. Appointments can be made for physical examinations and prescription renewals.

18.5.5 Medical Conditions and Academic Responsibilities

If medical problems or concerns are interfering with a student's ability to attend class, complete assignments, or write exams, Health Services staff can work with the student to assess the problem and review ways in which Health Services can be of assistance.

18.5.6 Location and Hours of Operation

Loyola Campus
7141 Sherbrooke St. W., Room: AD 103
Tel.: 514-848-2424 ext. 3575
Fax: 514-848-4533

Sir George Williams Campus
2155 Guy Street (Annex ER), Room: 407
Tel.: 514-848-2424 ext. 3565
Fax: 514-848-2834

Office Hours:
Monday to Friday: 9 AM to 4:30 PM
Closed for lunch between 11:30 AM and 1 PM

Office Hours:
Monday to Friday: 9 AM to 5 PM

**Both offices are wheelchair accessible.*

Website: <http://health.concordia.ca>
E-mail: healthy@alcor.concordia.ca

18.5.7
Residence and
Off-Campus Housing

RESIDENCE

Loyola Campus (West End)

There are two residences located on the Loyola Campus — Hingston Hall and the Jesuit Residence. **Hingston Hall** is a four-storey dormitory-style, coed residence that houses 147 first-year full-time undergraduate students. Single and double rooms are available with communal washrooms on each floor. Facilities in this complex include common kitchenette lounges equipped with microwave ovens, toaster, kettle, coffee-maker, and cable television (on each floor), a television room with piano, a games room, weight room, study room, and laundry facilities. Furnishing for each student includes a single bed, small dresser, desk, hutch, chair, and armoire. Refrigerators are rented to each resident for the duration of the academic year.

Jesuit Residence is a seven-storey dormitory-style, coed residence that houses 52 first-year full-time undergraduate students. This residence has single rooms with private bathrooms. There are centrally located kitchenette, TV lounge, reading room, games room, and laundry facilities within the complex. There is one room on the main floor equipped for a special-needs student. Each room is furnished with a double bed with storage drawers, armchair, desk, office chair, and bookcase. Refrigerators are rented to each resident for the duration of the academic year. The Jesuit Residence is equipped with telephone and Internet access in each room, included in the rent.

Sir George Williams Campus (Downtown)

Grey Nuns Residence is a four-storey dormitory-style, coed residence that houses 227 full-time first-year undergraduate students. The residence has 123 single rooms and 37 double rooms (small and large). Each room has a sink, with the exception of eight single rooms. Furnishing for each student includes a single-size Captain's bed, desk, lamp, chair, bookcase, and armoire (stand-alone or built-in). Some rooms have armchairs and night tables. Centrally located on each floor are kitchenette/lounges equipped with microwave oven, toaster, kettle, and coffee-maker as well as cable television. There is a games room with professional pool and foosball tables. Available throughout the facility are laundry rooms with Smart Card access. Refrigerators are rented to each resident for the duration of the academic year. The Grey Nuns Residence is equipped with telephone and Internet access in each room; this can be rented through Concordia's Digital Store.

Students in Residence are required to enrol in a meal plan offered by Concordia's food services provider, Chartwells. Information about the meal plan can be obtained directly from Chartwells at 514-848-2424 ext. 7428 or through their website at www.compass-canada.com/concordia.

By law, students are required to sign a *Lease in an Educational Institution* as issued by the *Régie du logement – Gouvernement du Québec*. The lease is for a nine-month period from August 15 to May 15. A lottery selection process is used to make housing assignments for the Fall/Winter Terms. Acceptance to the University does not guarantee admission to Residence. A separate application for on-campus housing can be accessed through the Residence Life website at the following address: <http://residence.concordia.ca>.

More information on Residence Life can be obtained by contacting the office at tel.: 514-848-2424 ext. 4755, fax 514-848-3937, or by writing to:

Concordia University – Residence Life
1455 De Maisonneuve Blvd. West, GN I-103
Montreal, Quebec H3G 1M8

OFF-CAMPUS HOUSING

A computerized housing list is available at CSU, Hall Building, Room: H 260, 514-848-2424 ext. 7476.

18.6.1
Gouvernement
du Québec
Student Loans and
Bursaries

18.6 FINANCIAL AID AND AWARDS

General Information

The Financial Aid and Awards Office assists students and prospective students in seeking and securing financial assistance to enable them to pursue their scholastic objectives. Student financial assistance is available in various forms, such as government student loans and/or bursaries; University scholarships and bursary programs; on-campus work opportunities through the University Work Study Program; and corporate scholarship programs.

Application forms for Quebec Loans and Bursaries are available from the Financial Aid and Awards Office. It is highly recommended that students apply for Quebec Loans and Bursaries online at www.afe.gouv.qc.ca/index.asp a minimum of four weeks prior to their studies. Each student is responsible for completing his or her application form and forwarding it directly to the government. Once a student's aid is calculated, he or she will receive a *Relevé de calcul* sheet indicating the amount of aid he or she will be entitled to receive.

It is important to note that the Loans and Bursaries Program is based on the principle that the student and in some cases, his or her parents, sponsor or spouse, must contribute toward the cost of the student's education according to their respective means. Financial assistance is initially granted in the form of a loan which a student must pay back at the end of his or her full-time studies. If a student is entitled to more than the maximum loan, he or she may receive additional assistance in the form of a bursary, which does not have to be paid back.

Eligibility

Students are eligible to be considered for government assistance if they meet the following conditions: 1) Canadian Citizen or Permanent Resident; 2) domiciled and residing in Quebec for one year [the last 12 consecutive months before pursuing full-time studies (excluding residents of other provinces who move to Quebec to pursue their full-time studies)]; 3) must be enrolled full-time. Full-time credit load for undergraduate students is defined as per Concordia University Calendar (§16.1.2). For Graduate students (master's and PhD), status is defined by the Admissions Office of the School of Graduate Studies. Graduate students in a Certificate or Diploma program must be registered for a minimum of eight credits per term.

In addition, the student must not have received assistance for a period exceeding:

- a) 39 months of university studies towards a single bachelor's degree;
- b) 47 months of university studies towards a single bachelor's degree which required more than 90 credits (not applicable to Mature students);
- c) 55 months of university studies towards a single bachelor's degree in a co-op program;
- d) 31 months of university studies towards a master's level degree;
- e) 35 months of university studies towards a master's level degree with thesis;
- f) 47 months of university studies towards a doctorate degree.

The periods described above (a,b,c, and d) are not cumulative, but are independent of each other. Students in university programs may not receive assistance for more than 88 months of full-time study. The Department of *Aide financière aux études* set the following maximum cumulative debt loads. Please be advised that the maximum cumulative debt load is unrelated to your eligibility periods; in other words, you might not be eligible for any assistance if you have accumulated a maximum debt load even if you have not used all your eligibility periods.

<i>Level of study</i>	<i>Maximum limit of loans</i>
Secondary vocational school	\$ 22,000
College: general	\$ 16,000
technical	\$ 23,000
non-subsidized	\$ 27,000
University: undergraduate programs requiring less than eight terms (BA)	\$ 30,000
undergraduate programs requiring more than eight terms (co-op, engineering)	\$ 36,000
graduate: master's level	\$ 42,000
master's level with thesis	\$ 48,000
doctorate level	\$ 55,000

Financial Assistance for Part-Time Students

Consult the *Aide financière aux études* website at www.afe.gouv.qc.ca/index.asp for funding available to part-time students.

Physically Disabled Students

Students in any faculty, who are Canadian Citizens or Permanent Residents and who have been domiciled in Quebec for one year prior to their full-time studies, may apply for a bursary if they suffer from a recognized major functional physical disability. Applications are available from the Financial Aid and Awards Office as well as at the Office for Students with Disabilities. Further information is also available at the Office for Students with Disabilities.

Explore (Second-Language Summer Program)

Bursaries will be granted to students across Canada to enable them to enrol in a five-week immersion course in French or English at accredited institutions.

The aim of this program is to provide post-secondary students with the opportunity to learn one of Canada's official languages as their second official language and to improve their knowledge of the culture represented by that language. Candidates whose mother tongue is neither French nor English may not receive bursaries to study English or French as their first official language. These bursaries will defray the cost of tuition, instructional materials, and room and board, but will not cover transportation costs or pocket money.

Inquiries regarding the awarding of bursaries (e.g., eligibility, etc.) should be made to the students' provincial coordinator or territorial official, the names and addresses of which are available at the Financial Aid and Awards Office.

Eligibility:

Students are eligible if they meet the following conditions:

- a) are Canadian Citizens or Permanent Residents at the time of application. Students studying in Canada on visas are not eligible;
- b) have general post-secondary standing or can prove that they will have obtained such a status by the time they become involved in the program;
- c) were enrolled as full-time students during the previous academic year.

Language Assistant Programs (Odyssey, Accent)

Language assistants are students who help students with the spoken language by conveying to them the real-life aspect of the language. They carry out their duties under the supervision of second-language teachers. Full-time language assistants work for nine months (September to May 31) for an average of 25 hours per week and may earn up to \$18,500. Part-time language assistants are employed for eight months for an average of eight hours per week (September to April). The program also provides reimbursement for certain expenses. For further information contact the Financial Aid and Awards Office.

**18.6.2
Federal and Provincial
Student Loans
and Bursaries**

Students applying for Federal and Provincial Loans (other than Quebec) must be Canadian Citizens or Permanent Residents with one year's residency, without pursuing full-time studies, and domiciled in the province to which they apply.

When students apply for financial assistance from the government (Federal or Provincial), and certification of student status is required on the application form, this certification is obtained from the Financial Aid and Awards Office.

In all provinces except Quebec, the provincial authority listed below administers the Canada Student Loan Plan (Federal) as well as their own programs.

List of Appropriate Provincial Authorities

ALBERTA
Student Finance Board
Xpress Post:
6th Floor, Sterling Place
9940-106th Street
Edmonton, Alberta
T5J 1G7
403-427-2740
<http://web2.concordia.ca/financialaid/loans/outofprovince.shtml#alberta>

BRITISH COLUMBIA
Student Aid BC
Ministry of Advanced Education,
Training and Technology
Xpress Post:
P.O. Box 9173, Stn.Prov.Govt.
Victoria, British Columbia
V8W 9H7
250-387-6100
1-800-742-1818 (toll free)
<http://www.aved.gov.bc.ca/studentaidbc>

MANITOBA
Student Aid Branch
1181 Portage, Suite 409
Winnipeg, Manitoba
R3G 0T3
204-945-6321
1-800-204-1685
http://www.gov.mb.ca/educate/sfa/pages/sfaFrontDoor_en.html

NEW BRUNSWICK
Student Financial Services Branch
Xpress Post:
5th Floor, P.O. Box 6000
T.D. Tower
77 Westmorland St.
Fredericton, New Brunswick
E3B 5H1
506-453-2577
1-800-667-8626 (toll free)
<http://www.studentaid.gnb.ca>

NEWFOUNDLAND and LABRADOR
Student Aid Division
Xpress Post:
Department of Education
216 Prince Phillip Drive
St. John's, Newfoundland
A1B 4J6
709-729-5849
<http://www.edu.gov.nf.ca/studentaid>

NORTHWEST TERRITORIES
Department of Education,
Student Services Section
Yellowknife, Northwest Territories – Box 1320
X1A 2L9
403-873-7194
1-800-661-0793
<http://www.nwtsfa.gov.nt.ca>

NOVA SCOTIA
Student Assistance Office
2021 Brunswick St.
Halifax, Nova Scotia
B3J 3C8
902-424-8420
<http://studentloans.ednet.ns.ca>

ONTARIO
Student Support Branch
Ministry of Colleges and Universities
P.O. Box 4500, 189 Red River Road, 4th Floor
Thunder Bay, Ontario
P7B 7G9
807-343-7260
1-800-465-3013 (toll free in Ontario)
1-800-465-3958 (telephone device for the hearing impaired)
1-900-565-6727 (a \$2 charge applies for students outside of the province)
<http://osap.gov.on.ca>

PRINCE EDWARD ISLAND
Student Aid Division
Department of Education
P.O. Box 2000, 16 Fitzroy Street,
Sullivan Building, 3rd Floor
Charlottetown, Prince Edward Island
C1A 7N8
902-368-4640
<http://www.gov.pe.ca>

QUEBEC
Ministère de l'Éducation
Aide financière aux études
1035, rue de la Chevrotière

Québec, Québec
G1R 5A5
418-643-3750
514-864-4505 (for information or inquiry into the status of your file)
(Interactive telephone 24 hours/day, 7 days/week)
1-877-643-3750
<http://www.afe.gouv.qc.ca/index.asp>

SASKATCHEWAN
Student Financial Assistance Branch
4635 Wascana Parkway, Box 650
Regina, Saskatchewan
S4P 3A3
306-787-5620
<http://www.learning.gov.sk.ca>

YUKON
The Student Financial Assistance
Department of Education
P.O. Box 2703
Xpress Post:
1000 Lewes Blvd.
Whitehorse, Yukon Territory
Y1A 3H9
867-667-5929
<http://www.nwtsfa.gov.nt.ca>

CANADA STUDENT LOAN
Xpress Post:
Public Institution Division
2 Robert Speck Parkway
Mississauga, Ontario
L4Z 1H8
1-800-815-4514

18.6.3 Concordia University Financial Aid

Work Study Program

Work Study is a financial aid program funded by Concordia University, the Department of *Aide financière aux études* of the *Ministère de l'Éducation, du Loisir et du Sport*, and *La Direction des affaires étudiantes et de la coopération internationale du Ministère de l'Éducation, du Loisir et du Sport*. It is designed to assist full-time Concordia University students (with the exception of the Summer Term), who are in financial need, to pursue their academic goals by providing part-time employment on campus. (Maximum of 200 hours per term.)

Eligibility: A student is eligible to participate in the Work Study Program if he/she meets the following criteria:

- a) must be a Canadian Citizen, a Permanent Resident, or an International student;
- b) must be registered as a full-time student for the academic period in which the work is performed;
- c) must demonstrate financial need as evidenced by a needs test done by the Financial Aid and Awards Office.

Further information on this program can be obtained at the Financial Aid and Awards Office and by reading the *Work Study Information Booklet* at: <http://financialaid.concordia.ca/workstudy>.

Tuition Deferrals

Students who have received a confirmation of financial assistance from a government funding source and who are unable to pay their tuition fees by the required deadlines may apply to defer payment until such time as they receive their funds. Requests for tuition deferrals must be made through the Financial Aid and Awards Office. Tuition deferrals will not cover any outstanding tuition fees from previous years nor the interest on the outstanding balance. For further information, please contact the Financial Aid and Awards Office.

Short-Term Advances

Funds are available at the Financial Aid and Awards Office for students experiencing financial difficulties. Such advances are issued to undergraduate and graduate, full-time and part-time students at Concordia

University. Students must see a Financial Aid and Awards officer for further information on eligibility requirements and conditions.
The service is made possible by contributions of the Concordia University Alumni Association Inc. to the University Emergency Loan Endowment Fund from which interest earnings support part of the Short-term Advance Program.

18.6.4
Concordia University
Scholarships and
Bursaries

Concordia University Awards

Two types of awards are available to undergraduate students through the Financial Aid and Awards Offices; these are scholarships and bursaries.

Entrance Scholarships are available to students entering university programs, and In-Course Scholarships are available to students who have completed the previous year of full-time study at Concordia University. In all cases, scholarships are awarded on the basis of scholastic achievement and, for some awards, consideration is given to the involvement in university life.

Bursaries are available to students who have completed at least one previous year of full-time study at Concordia University. These bursaries are known as In-Course Bursaries, and are awarded on the basis of financial need and scholastic achievement.

Unless otherwise stated, all awards are granted to full-time students who are Canadian Citizens or Permanent Residents. Unless expressly authorized by the University Undergraduate Scholarships and Awards Committee, award recipients may hold only one of the following types of awards in a given academic year: Concordia Entrance Scholarships, Concordia In-Course Scholarships, or Concordia In-Course Bursaries.

For additional information on all undergraduate awards, consult the Financial Aid and Awards Office (FAAO) website at <http://faao.concordia.ca>.

Entrance Scholarships

A number of scholarships are available to students entering their first year of full-time study. These are awarded by the University Scholarship and Awards Committee on the basis of academic achievement during the first three semesters of Cegep or equivalent. For a complete list, consult the FAAO website.

In-Course Scholarships

In-Course Scholarships are awarded to full-time students (unless otherwise indicated) who have completed at least 24 credits at Concordia. Recipients are selected in the summer on the basis of the previous year's academic achievement. The scholarships are paid in the following Fall and Winter terms. Recipients must maintain their full-time status throughout the year the award is tenable. Unless otherwise indicated, no application is required. Academic performance is reviewed with the Office of the Registrar. For a complete list, consult the FAAO website.

Entrance Bursaries

Entrance Bursaries are available to students entering university studies for the first time. They require completion of an Entrance Bursary application form, which must be submitted along with various supporting documents directly to the Financial Aid and Awards Office. Eligibility is determined following a financial needs test, a review of the candidate's academic ranking as assigned during admission application processing, and an appreciation of the applicant's personal statements on the Entrance Bursary application form. For a complete list of available Entrance Bursaries, consult the FAAO website.

In-Course Bursaries

These awards are made on the basis of financial need and satisfactory academic standing. The value of each award may fluctuate yearly depending upon current interest rates.

Unless stated differently, awards are given to full-time students who are Canadian Citizens or Permanent Residents. For a complete list, consult the FAAO website.

18.6.5
Awards Offered by
External
Organizations

These awards are sponsored and administered by external associations, companies, foundations, societies, and clubs. Applications go directly to the organization administering the award, unless otherwise noted. For a complete list, see §300.4.

18.6.6
International
Students

American Students:

American students studying at Concordia are eligible for financial aid (full-time: 12 credits or more or half-time: 6 credits or more) in the form of a Federal Stafford Loan or Parent Plus Loans.

Upon acceptance to Concordia, U.S. students seeking assistance (financial aid) must complete a Free Application to Federal Student Aid form (FAFSA) online at <http://www.fafsa.ed.gov>. For the FAFSA form, Concordia's school code is 008365.

The original Student Aid Report (SAR), which is the result of a financial needs test, must be submitted (along with the loan application[s] and Master Promissory Note) to the Financial Aid and Awards Office for approval. Upon receipt of the above-mentioned documents, a financial aid officer will prepare an

assessment (Cost of Attendance) based on the current-year tuition fees, books, and living expenses, determine the amount of aid, complete the school certification, and send it to the appropriate lender/guarantor.
For further information on this program, consult the FAAO website.

Students from Other Countries:

The scholarships, bursaries, and loans offered through Concordia University and external agencies are generally not available to overseas students. Students studying on a student visa who require financial aid should, therefore, contact their home country's Department of Education.

The Canadian International Development Agency offers training assistance to most developing countries with which Canada has a cooperative agreement; however, students must be nominated by their own government. For further information, contact the Scholarship Committee, Human Resources Directorate, Canadian International Development Agency, 200 Promenade du Portage, Hull, Quebec, K1A 0G4. Students should try to obtain adequate finances before coming to Canada. If students do not plan to return home during the summer, four additional months of living expenses should also be provided for.

18.7 RECREATION AND ATHLETICS

The Department of Recreation and Athletics believes physical fitness, interuniversity athletics, and recreation opportunities are an integral part of a Concordia University education. Its goals are to provide services and programming that enrich the educational experience of students and to offer opportunities for staff, faculty, and the local community to be physically active in a safe, healthy environment. Recreation and Athletics facilities can be found on both campuses. The Loyola Campus facility is the focal point of Stingers varsity sports and intramural leagues. It also hosts a small number of instructional activities. The facility includes two full-length, state-of-the-art artificial playing surfaces with lighting, one of which is a 4,000-seat stadium; the Ed Meagher Arena; a gymnasium; and a modest weight room.

Le Gym, the new fitness centre located on the Sir George Williams Campus in the Engineering, Computer Science and Visual Arts Complex, is a comprehensive workout facility and is the focal point of instructional programs.

The Department is enjoying a period of great growth, and architects continue to plan for further expansion. Updates regarding the facilities are provided regularly on the Department website.

The intercollegiate program gives more than 350 elite student-athletes the opportunity to represent Concordia University at provincial, national, and international competitions. The Stingers compete in the following sports: football, basketball, hockey, rugby, soccer, wrestling, baseball, golf, cross-country, and skiing. Concordia student-athletes compete in more than 200 events every year. For additional information, see www.stingers.ca.

The Campus Recreation program offers more than 50 activities to choose from. Programs range from intramural team sports to instructional offerings in aerobics, dance, martial arts, and relaxation. For additional information, see www.concordia.ca/recreation.

Loyola Campus
7200 Sherbrooke St. W., Room: PA 104
514-848-2424 ext. 3858

Sir George Williams Campus
1515 St. Catherine St. W., Room: EV S2.202
514-848-2424 ext. 3860

Fax: 514-848-8637



international students

19.1 ADMISSION REQUIREMENTS

- 19.1.1** Admission Requirements
- 19.1.2** Language Proficiency
- 19.1.3** Criteria for Admission
- 19.1.4** Registration

19.2 IMMIGRATION PROCEDURES AND DOCUMENTATION REQUIRED FOR THE UNIVERSITY

- 19.2.1** Immigration Procedures
- 19.2.2** Documentation Required for the University

19.3 TUITION AND OTHER FEES FOR INTERNATIONAL STUDENTS

19.4 SCHOLARSHIPS, BURSARIES AND LOANS

19.5 INTERNATIONAL STUDENT HEALTH AND ACCIDENT INSURANCE

19.6 WORKING ON-CAMPUS

19.7 WORKING OFF-CAMPUS

section 19



19

INTERNATIONAL STUDENTS

There are over 4,000 International students from more than 150 countries studying at Concordia University. In this section, International students will find relevant information on admission requirements, immigration regulations and tuition fees.

The International Students Office, a member of Advocacy and Support Services, Enrolment and Student Services, is responsible for providing programs and services which are responsive to, and supportive of, International students' special needs. The services include:

- orientation sessions for new students;
- assistance for students with personal and academic difficulties;
- guidance in cultural integration/adaptation;
- health insurance plan;
- information on all campus and community services available to International students;
- assistance with immigration procedures, rules, and regulations;
- short-term emergency loans;
- letters for transfer of funds, and immigration invitation/visitation letters;
- liaison with sponsoring agencies and governmental sponsors of students.

Upon arrival at Concordia University, new International students must attend a First Stop Information Session organized by the International Students Office, in order to pick up their *Information Package* on Concordia and the City of Montreal. Students should attend an Insurance Information Session and sign up for a health insurance card or, in exceptional cases, opt out of the health insurance plan (see §19.5 for further details). It is essential that International students bring photocopies of their immigration documents and/or passport to the International Students Office.

19.1 ADMISSION REQUIREMENTS

19.1.1 Admission Requirements

Concordia welcomes applications for admission from well-qualified students from other countries. In general, students are expected to have completed the level of education required for university admission in their home country. The school-leaving subjects taken by the candidate should normally be appropriate for the degree program to which application has been made. Some programs have additional requirements, e.g. audition, interview, portfolio. Since entry to many programs is limited, the satisfaction of minimum requirements does not guarantee entry to the University. More specific information with respect to admission requirements and placement levels may be obtained by writing to the Office of the Registrar.

Depending on their educational background, applicants are considered for entry to three-year (90 credits) or four-year (120 credits) degree programs. In the case of the BEng, BA (Early Childhood and Elementary Education), BEd (TESL), or BFA (Specialization in Art Education), the program requires four to five years.

Advanced Level and Advanced Subsidiary Examinations

Passes awarded in the examinations for the General Certificate of Education, the IGCSE and the GCSE or the equivalent will be considered as satisfying the general entrance requirements if the conditions of either Scheme A or Scheme B are satisfied.

Scheme A: Passes in five subjects, of which two must be passed at the Advanced Level (GCE) or Principal Level (COHSC), and three at the Ordinary Level (or GCSE) or the School Certificate Level.

Scheme B: Passes in four subjects, of which at least three must be passed at the Advanced Level (GCE) or Principal Level (COHSC), and one at the Ordinary Level (or GCSE) or the School Certificate Level.

Some additional information attached to the fulfilment of the above schemes:

- a) an average grade of "D" or better in Advanced or Principal Level subjects is expected. In the case of certain quota programs where enrolment is limited, candidates will have to present higher grades in order to compete successfully for places at the University;
- b) two appropriate AS (Advanced Subsidiary) Levels may be accepted in lieu of an Advanced Level for the purpose of satisfying the general entrance requirements of the University.

Students who have not written Advanced or Principal Level examinations but who have high grades in at least five appropriate Ordinary Level, GCSE, or School Certificate Level subjects plus one full year of formal schooling beyond Ordinary Level in a suitable academic program in a recognized school or

college, may be considered for admission to an undergraduate program requiring the completion of 120 credits (four years). In the case of the BEng, BA (Early Childhood and Elementary Education), BEd (TESL), or BFA (Specialization in Art Education), the program would require four to five years.

United States

High school graduates with strong grades from accredited schools who have followed an academic program designed for university entrance may apply for admission to an undergraduate program requiring the completion of 120 credits (four years). In the case of the BEng, BA (Early Childhood and Elementary Education), BEd (TESL), and BFA (Specialization in Art Education), the program requires four to five years. A GED (General Education Diploma) is not recognized as meeting the requirements for admission to a degree program.

Applicants are required to have a better than average school record and high ranking in their graduating class. While no set pattern of courses in high school is required, all applicants are expected to have taken four units of English. Those applying for admission to Science or Engineering must include three or four units in mathematics and two in the sciences. At least three units of mathematics are recommended for admission to the John Molson School of Business.

Although not required for admission, letters of recommendation from school guidance counsellors and the results of aptitude and achievement tests (SAT, ACT) are helpful additions to an application.

Students who have passed Advanced Placement examinations in appropriate subjects with a grade of "3" or better may be granted some advanced standing.

France

Students who have completed the requirements for the Baccalauréat with satisfactory results may be considered for admission to an undergraduate program requiring the completion of 90 credits (three years), or 120 credits (four years) for the BEd (TESL), BA (Early Childhood and Elementary Education), and BFA (Specialization in Art Education).

The number of credits required for the BEng varies according to the option chosen and to the previous preparation of the student, but is usually no fewer than 119.

In cases where the Baccalauréat specialization (serie) followed does not fully satisfy the entrance course requirements for the degree program sought, the student, if admitted, will have to include the designated prerequisites as part of the first-year program. In some instances, the prerequisites must be taken in addition to the undergraduate program.

International Baccalaureate

Candidates who complete the full IB Diploma and who obtain a minimum total of 27 points, may be considered for admission to the three-year (90 credits) programs of study (four years of study in Engineering, Early Childhood and Elementary Education, BEd [TESL], or BFA — Specialization in Art Education). Students who have not completed the full IB Diploma program but have IB Certificates in individual Higher Level subjects may be eligible for credit.

Other Countries

Candidates applying from other countries who have completed the level of education required for university admission in their home country will be considered for admission provided that better than average grades have been attained. In most cases, a specific minimum overall standard is required. More specific information with respect to admission requirements and placement levels may be obtained by writing to the Office of the Registrar.

Transfers from Post-Secondary Institutions

Transfers from post-secondary institutions are referred to §13.3.4.

19.1.2 *Language Proficiency*

The language of instruction at Concordia University is English. For information regarding the language proficiency requirement, refer to §13.4.

19.1.3 *Criteria for Admission*

Admission to Concordia University is selective and will be considered when all relevant academic documents and the Summary of Educational Experience form have been received. All certificates must show the actual grade obtained in each examination. Further information and assistance may be obtained from the Office of the Registrar; tel.: 514-848-2424 ext. 2668; fax: 514-848-2621; Web: <http://registrar.concordia.ca/AskConcordia>.

19.1.4 *Registration*

Students select courses for the September and January terms prior to the start of classes, and register for their courses via the Web. Complete information regarding registration is sent with the letter of acceptance.

19.2 IMMIGRATION PROCEDURES AND DOCUMENTATION REQUIRED FOR THE UNIVERSITY

19.2.1 Immigration Procedures

All persons, other than Canadian Citizens and Landed Immigrants, who wish to pursue their studies in the province of Quebec, must obtain a **Quebec Certificate of Acceptance (CAQ)** and a **Canada Study Permit**. However, if their program of study is six months or less in duration, students have the option of studying in Canada without having to apply for a CAQ or *Study Permit* provided they complete their studies within the authorized period of their stay in Canada. This regulation may be of particular interest to a visiting student, exchange student, or any other student whose program of study will not exceed six months and which can be completed within the allowable period of their stay in Canada.

The CAQ is obtained by the Immigration Quebec authorities and the *Study Permit* by the Visa Departments of the Canadian Consulates and Embassies.

The obtainment of the CAQ and *Study Permit* is a lengthy process; it is therefore strongly recommended that the application process be started **immediately** upon receipt of the letter of admission from Concordia University. Immigration documents are required to study at Concordia University. Failure to obtain these documents may prohibit study. For further information, please consult the *Information Guide for International Students* available at the International Students Office website: <http://supportservices.concordia.ca/iso>.

When applying for the *Quebec Certificate of Acceptance* and the *Study Permit*, International students are required to present evidence of sufficient funds for tuition and living expenses. Evidence of financial support may be:

- an updated bank book with proof of ownership, and if necessary, documents attesting to other sources of income;
- a sworn declaration of financial support, accompanied by proof of sufficient funds from the Canadian or foreign sponsor for the current year, if applicable;
- if students are under 18 years of age, both Immigration Quebec and Immigration Canada require that the student provide legal proof of sponsors here in Canada;
- an authorization to transfer funds from the organization which controls currency in the student's country, if applicable;
- a bursary attestation or confirmation of a financial award, specifying the monthly or annual amount, if applicable.

Students are advised to ensure that they will have sufficient funding to complete their degree.

Concordia University cannot assume financial responsibility for students who do not have adequate funds.

Processing fees will be charged by both Immigration Quebec and Immigration Canada for the issuance of a *Quebec Certificate of Acceptance* and a *Study Permit*.

Studying for Six Months or Less

As indicated above, if a student's program of study is six months or less and can be completed within the allowable period of their stay in Canada, they need only apply for a *Temporary Resident Visa* if they reside in a country that requires such a document to enter Canada; no other document is necessary. Despite this regulation, foreign nationals may still apply for a CAQ and a Study Permit if they wish to get these documents. Further information may be obtained from the Visa Departments of the Canadian Consulate and Embassy in the students' country. A list of Canadian Representatives abroad is available through the following website: <http://www.dfait-maeci.gc.ca/world/embassies/cra-en.asp>.

19.2.2 Documentation Required for the University

International students are required to provide a photocopy of their CAQ, Study Permit, or passport to the International Students Office, 1455 De Maisonneuve Blvd. West, Hall Building, Room 653 when they first register at Concordia and thereafter every time they renew their immigration documents. Failure to comply with this regulation could result in the cancellation of the student's registration. International students who will be studying for six months or less are required to submit photocopies of their passport pages showing the passport number, the dates of issue and expiry, name and date of birth, and the stamp made by Canadian authorities on their most recent entry into Canada.

This directive is in accordance with the funding regulations of the *Ministère de l'Éducation, du Loisir et du Sport* which requires that all International students registered at a university in Quebec have in their permanent file a copy of their *Quebec Certificate of Acceptance*, their *Study Permit*, and for persons studying six months or less, a photocopy of the appropriate passport pages.

International students are required to provide the appropriate documentation to the International Students Office before the DNE deadline of their first semester at Concordia. Failure to comply with this regulation could result in the cancellation of the student's registration.

19.3 TUITION AND OTHER FEES FOR INTERNATIONAL STUDENTS

The fees, payable to the University for the regular session of two terms commencing in September and concluding in April, are approximately \$13,572 to \$15,740 for a full-time student. This amount includes tuition fees for 30 credits; compulsory fees which include student services, recreation and athletics, technology infrastructure, copyright and association and activity fees; administration fee; registration fees; and the health insurance premium. This estimate does not include the cost of textbooks or living expenses.

Please refer to §15.2 for information concerning the payment of tuition and fees. The most current Tuition and Fees information is available on the Concordia University website (www.concordia.ca) Quick Link to the "Tuition and Fees" site.

Exemptions from Differential Fees

Certain International students may be eligible to pay the same fees as Quebec Residents. Students who qualify for an exemption from the differential fees for International students, pay tuition and other fees at the same rate as the Canadian, Quebec Resident student (including tuition and compulsory fees for 30 credits, and the International students health insurance fee). The following are among those exempted from paying differential fees:

1. diplomats, consular personnel, accredited representatives or civil servants of a foreign country, the United Nations or one of its organizations, an intergovernmental organization to which Canada belongs, and any member of the staff of the above-listed persons who are working in Canada in an official capacity and who have obtained an attestation issued by "le Protocole" (Gouvernement du Québec), 525 René-Lévesque East, Quebec City, telephone 418-649-2346. This attestation is valid for one academic year and must be renewed each year the student attends university;
2. the spouse and unmarried children of the above-listed persons;
3. an International student whose spouse or parents hold certain work categories of work permits in Quebec. For further details and verification, please contact the Office of the Registrar, Room LB 700, 514-848-2424 ext. 2624;
4. a student who is registered at a university and who has come to Quebec as an exchange student, or as a student participating in a program of cooperation agreed to by the Government of Quebec and which exempts the participants from paying differential fees;
5. a student who is a French Citizen (accord France-Québec) and has not resided in another Canadian province or territory immediately prior to coming to Quebec;
6. a student who is admitted to a Quebec university and whose country has a fee remission agreement with the Quebec Government. The Government of Quebec has agreements for granting a limited number of exemptions from the differential fees for International students from the following countries:
Algeria, Andorra, Belgium (Flemish Community), Belgium (French Community), Benin, Bolivia, Burkina Faso, Cameroon, China, Colombia (ICETEX), Congo (Brazzaville), Democratic Republic of the Congo, Ecuador, Egypt, Gabon, Germany (Bavaria, DAAD), Guinea, Haiti, Honduras, Israel, Italy, Ivory Coast, Korea, Lebanon, Luxembourg, Madagascar, Mali, Mauritania, Mauritius, Mexico (CONACYT, SEP, SRE), Morocco, Niger, Panama, Peru, Rwanda, Senegal, Spain (Catalonia), Togo, Tunisia, Uruguay, and Vietnam.

Inquiries and applications for an exemption should be made directly to the students' own Ministry of Education prior to leaving their home country. In some cases, when the person is in Canada, it may be possible to apply for an exemption at his or her Embassy or Consulate in Canada or in the United States;

7. a student who is registered at a university and whose status as a Permanent Resident has been officially recognized by Immigration Canada. Should a student receive Permanent Resident status during the academic year, he or she should immediately present the official document to the Office of the Registrar, Room LB 700, to have his or her status changed and to inquire about a possible refund. For more information on refund policies and deadlines for submission of documents, please contact the Office of the Registrar;
8. under certain conditions, students who have obtained Convention Refugee status may be eligible for an exemption from the differential fees for International students. Depending on the documentation submitted, they may be eligible to pay either the Quebec tuition rate or the Canadian non-Quebec rate. For information on deadlines for submission of documentation and on the specific documents required, please contact the Office of the Registrar;
9. under certain conditions, International students holding certain categories of CSQ who are allowed to apply for Permanent Resident status from within Canada may be eligible to pay the Quebec tuition rate.

19.4 SCHOLARSHIPS, BURSARIES AND LOANS

Scholarships, bursaries, and loans offered through Concordia University and external agencies are generally not available to International students. Students should try to obtain adequate finances before coming to Canada and ensure that they will have sufficient funding to complete their degrees. Further information on student assistance programs available to International students can be found in §18.6.6 and on the Financial Aid and Awards website: <http://financialaid.concordia.ca>.

The John Molson School of Business — Pierre Seigny Scholarship

The John Molson School of Business awards entrance scholarships to a number of International applicants on the basis of academic achievement. The scholarship is equal to \$150 per credit taken during the first full-time academic year of studies at the John Molson School of Business, renewable for the following academic year provided the student maintains a grade point average of 3.75 for a minimum of 12 Concordia University credits per term. For more information, telephone: 514-848-2424 ext. 4118 or e-mail: intlcomm@jmsb.concordia.ca.

Exemption from Higher Tuition Fees

The Government of Quebec has agreements for granting a limited number of exemptions from differential fees for International students from specific countries. Consult §19.3.6 for the list of countries and information. Further information regarding the Exemptions from Supplemental Tuition Fees may be obtained from the following website: http://www.mels.gouv.qc.ca/ens-sup/ens-univ/droits_scolaire-A.asp.

Other Awards

Information on awards to International students and trainees is also available in the brochure *Awards for Study in Canada* published by the Canadian Bureau for International Education. For further information, write to CBIE, 220 Laurier Avenue West, Suite 1550, Ottawa, Ontario, Canada, K1P 5Z9; telephone: 613-237-4820; website: <http://www.cbie.ca>; e-mail: info@cbie.ca. Another website of interest: <http://www.destineducation.ca>.

Emergency Loans

Funds are available at the International Students Office for short-term emergency loans. Loans are issued to full-time undergraduate and graduate students who need temporary emergency financial assistance. For further information on eligibility requirements and conditions, contact the coordinator, International Students Office, Room: H 653, 514-848-2424 ext. 3514.

19.5 INTERNATIONAL STUDENT HEALTH AND ACCIDENT INSURANCE

Immigration Quebec Services and the Quebec *Ministère de l'Éducation, du Loisir et du Sport* require that all International students be covered by a health insurance plan while studying and living in Quebec. To this end, Concordia University has implemented a compulsory health and accident insurance plan for its International students. Health insurance fees are charged automatically every year when International students register for courses.

The single coverage for the 2008-09 academic year is \$515 (subject to change). Coverage is from August 15, 2008, until August 14, 2009. Students who register in January pay a pro-rated premium for the eight-month period ending August 14, 2009.

Only certain categories of International students are permitted to opt out of the Concordia Health Insurance Plan for International Students. These categories are listed below. Please note that Concordia University does not accept any other kind of health insurance plan.

1. Students who have a valid Quebec Medicare card / *Carte d'assurance maladie du Québec*.
2. As a result of intergovernmental agreements, full-time students from **Denmark, Finland, France, Luxembourg, Norway, Portugal, and Sweden** who were covered under their government's medical system before their arrival in Quebec, are eligible for the Quebec medical benefits (called Quebec Medicare card or *Carte d'assurance maladie du Québec*). These students must apply for the Quebec Medicare card. Further information is available at the International Students Office.
3. International students who receive a scholarship from a sponsoring organization (such as CIDA, ICCS, CBIE, WUSC). Students must ensure that their scholarship letter clearly mentions the health insurance coverage as well as the duration of the policy.
4. Refugee Claimants and Convention Refugee students who can show proof of medical coverage by the Canadian or Quebec Government.
5. International students who become Permanent Residents of Canada. An exemption/adjustment will be based on the date the International Students Office receives the record of landing document.

Proof of insurance is required in order to process an exemption. It must be presented in English or French indicating the period and amount of coverage available in Canada. This information is required

by the Quebec *Ministère de l'Éducation, du Loisir et du Sport* and must be in the student's Concordia file for audits and reports. Applications for exemptions are processed in person at the International Students Office (ISO), Hall Building, Room H 653. Applications must be processed every year before the prescribed deadlines; requests received after the deadlines and approved by the ISO will be charged an administration fee.

Refunds will be considered only for students who have not filed any claim to the Insurance Company during the current insured period. Refunds are given in a form of credit to the student's university account.

Exemption Deadlines for Students Beginning the 2008-09 Academic Year in September 2008

First deadline: October 31, 2008
Full refund

Second deadline: December 21, 2008
Refund of \$415
(administrative fee: \$100)

Final deadline: May 1, 2009
Refund of \$315
(administrative fee: \$200)

No refund will be approved after this final deadline.

Exemption Deadlines for Students Beginning the 2008-09 Academic Year in January 2009

First deadline: February 28, 2009
Full refund

Final deadline: May 1, 2009
Refund of \$330
(administrative fee: \$100)

No refund will be approved after this final deadline.

Exemption Deadline for Students Beginning in Summer 2009

Final deadline: June 15, 2009
Full refund

No refund will be approved after this final deadline.

19.6 WORKING ON-CAMPUS

Immigration regulations allow full-time International students to accept employment on the campus of the educational institution where they are registered, as long as they hold a valid *Study Permit*. They do not require a *Work Permit*. After graduation, International students may work in Canada, provided the employment is in their field of study. In this case, they must apply for a *Work Permit* within 90 days of release of final marks.

Spouses of International students are allowed to work on- and off-campus and are required to apply for a *Work Permit*. However, spouses who are full-time students are restricted to on-campus employment only. Further information may be obtained at the International Students Office, 514-848-2424 ext. 3515, e-mail: iso@alcor.concordia.ca.

Immigration regulations cited in this section are valid at the time of this writing. For further information, students should contact the Canadian Consulate/Embassy in their country.

19.7 WORKING OFF-CAMPUS

Students may apply for an *Off-Campus Work Permit* after six months of full-time study providing they maintain "good academic standing". Further information may be obtained at the International Students Office, 514-848-2424 ext. 3515, e-mail: iso@alcor.concordia.ca.



student and alumni associations

20.1 UNDERGRADUATE STUDENTS

20.2 GRADUATE STUDENTS

20.3 ALUMNI

section 20



20

STUDENT AND ALUMNI ASSOCIATIONS

20.1 UNDERGRADUATE STUDENTS

The **Concordia Student Union (CSU)** represents most undergraduate students, both full-time and part-time. Besides organizing many events and activities, CSU ensures student representation on University decision-making bodies, both those that legislate on academic and administrative matters and those concerned with the cultural and social life of the community. There are student members of the Board of Governors, Senate, the Faculty Councils, and the Concordia Council on Student Life, which is directly concerned with the provision of student services.

Powers and responsibilities are divided between three bodies: the Executive, the Council of Representatives, and the Judicial Board. The Executive is headed by an elected president. The Council of Representatives consists of students elected from the four Faculties and Independent students. The Judicial Board is an appointed body charged with assuring the constitutionality of any new legislation.

Students in the four Faculties are also represented by their own associations: the **Arts and Science Federation Association (ASFA)**, the **Commerce and Administration Students' Association (CASA)**, the **Engineering and Computer Science Students' Association (ECA)**, and the **Fine Arts Student Association (FASA)**.

The CSU has more than 75 member-clubs and associations. They may be associated with a department or discipline, such as the Psychology Students' Association or pursue a special interest like the Debating Society. Each has its own program of activities, funded by the CSU.

Other activities that come under the CSU umbrella are the television station *CUTV*, the radio station *CJLO*, and the CSU Orientation. Two student newspapers, *The Link* and *The Concordian*, operate independently of the student association. Both newspapers are incorporated, with separate, wholly autonomous Boards of Directors.

There is a CSU office on each campus. The Sir George Williams office is in Room H 711 of the Henry F. Hall Building. The Loyola office is in the Loyola Campus Centre. CSU's telephone number is 514-848-2424 ext. 7474.

20.2 GRADUATE STUDENTS

Graduate students become members of the Graduate Students' Association (GSA). It is concerned with graduate student representation on the Board of Governors, Senate, the School of Graduate Studies and Faculty Councils, and initiates a wide range of activities for graduate students and the University community as a whole, including social occasions, lectures, and concerts. The Association publishes a regular newsletter. Its offices are at 2030 Mackay Street 514-848-2424 ext. 7900.

20.3 ALUMNI

The **Concordia University Alumni Association (CUAA)** was created in 1983 to "encourage the fellowship of graduates from Loyola, Sir George Williams, and Concordia University through social, educational, and cultural activities" and to "preserve and promote the interests of Concordia University through alumni involvement in its future and governance." Concordia students and graduates of the founding institutions of Loyola College and Sir George Williams University are automatically CUAA members. Concordia now boasts 140,000 alumni worldwide.

Benefits and Services – Current Students: The CUAA collaborates with Concordia's Advancement and Alumni Relations to offer students and alumni various programs and services. Even before graduation, students can take advantage of numerous services, events, and activities, including funding for student projects, the Backpack-to-Briefcase Workshops, Career Panels, the Annual International Students Holiday Dinner and Coffee Breaks during exam periods. Another one of the CUAA's services, the Online Mentor Program, matches students with Concordia alumni who dispense both professional and practical advice about the job market based on their personal experiences.

Benefits and Services – Alumni: With a complimentary Alumni I.D. Card, alumni gain access to Concordia libraries, audio-visual facilities, career and placement services, legal information services, and music practice rooms. Alumni are also eligible for discounts at hotels, Budget Rent-A-Car, Via Rail, Costco membership, theatre tickets, the YMCA, and Le Gym. Alumni receive discounts on initiation fee and monthly memberships at Nautilus Plus and can obtain Campus Discount on magazine and newspaper subscriptions.

Alumni receive the quarterly *Concordia University Magazine* and waived registration fees at Concordia's Centre for Continuing Education. They can obtain the Concordia University Mosaik MasterCard, reduced rates on TD Meloche Monnex home, automobile, and travel insurance, and Manulife health and dental insurance and critical illness plan. Advancement and Alumni Relations also offers photography services at Convocation. Alumni can explore the world through the new Concordia University Alumni Travel Program, which offers unique destinations, such as Antarctica, the Galapagos Islands, Russia, China, and more.

Events: The CUAA sponsors programs and events year-round that Advancement and Alumni Relations organizes. Students, faculty, staff, and friends are always invited to its largest and most prestigious, on-campus event, Homecoming, which includes special reunions, chapter and networking events, educational seminars, campus tours, family entertainment, and the Homecoming Football Game. The Annual Alumni Recognition Awards Banquet honours outstanding volunteer contributions from the University's alumni, faculty, staff, students, and friends.

Staying In Concordia: The InConcordia online community brings together all Concordia, Loyola, and Sir George alumni to a private and secure, online social network. InConcordia features custom chapter groups, discussion forums, blogs, and photo albums to keep alumni connected to their alma mater and classmates long after graduation. Alumni can also register for their free E-mail Forwarding for Life or re-connect with lost friends and classmates through the Find-a-Friend Program.

Worldwide Chapters: The CUAA is committed to developing and supporting a worldwide network of alumni chapters. There are active alumni groups in Ottawa, Toronto, Calgary, Edmonton, Vancouver, Tri State (New York, New Jersey, and Connecticut), Boston-New England, Beijing, Hong Kong, and Shanghai. There are also Faculty-based chapters for the Faculty of Engineering and Computer Science, the Faculty of Fine Arts, the John Molson School of Business, and the departments of Communication Studies, Journalism, and Teaching English as a Second Language in the Faculty of Arts and Science. And there are affinity-based chapters such as the Varsity Athletes, Institute for Co-operative Education (Co-op), and Garnet Key chapters.

For the latest information on alumni chapters, benefits, and events, visit alumni.concordia.ca or contact Advancement and Alumni Relations, 1250 Guy Street, Room FB 520, 514-848-2424 ext. 4856, fax 514-848-2826, or e-mail alumni@concordia.ca.



school of extended learning

21.1 *STUDENT TRANSITION CENTRE*

21.2 *STRATEGIC TRANSITION AND ENHANCED PREPARATION FOR UNIVERSITY PROGRAMS (STEPUP)*

21.3 *CENTRE FOR CONTINUING EDUCATION*

- 21.3.1** Communications/Visual Arts
- 21.3.2** Business and Administration
- 21.3.3** Computer Institute
- 21.3.4** Continuing Education Language Institute
- 21.3.5** General Seminars and Workshops
- 21.3.6** Hospitality Management and Tourism
- 21.3.7** Online Learning
- 21.3.8** Courses in Health, Wellness, and Personal Interest

section 21



21

SCHOOL OF EXTENDED LEARNING

Dean
NOEL BURKE

Location

Sir George Williams Campus
Faubourg Tower
1600 St. Catherine St. West, Room: FB 100
514-848-2424 ext. 5426

Objectives

The School of Extended Learning provides a wide range of programs and services which are aimed at increasing student accessibility to the University. Programs include Continuing Education non-credit courses, distance and e-learning options, as well as customized training and professional development. Services are focused on three support systems: Recruitment — providing alternative entry points to university studies; Retention — assisting students to explore alternative learning paths; and Recovery programs which support student re-entry and transition to university studies. These programs and services can be accessed through the School's Centre for Continuing Education and Student Transition Centre.

21.1 STUDENT TRANSITION CENTRE

Interim Director
MURRAY SANG

Senior Students Program Coordinator
SYLVIA DE NIVERVILLE

Advisors
BRIGEEEN BADOUR
STEVE CLARK
NELLY TRAKAS

Location

Sir George Williams Campus
Faubourg Tower
1600 St. Catherine St. West, Room: FB 100
514-848-2424 ext. 3891

The primary aim of the Student Transition Centre is to provide services to mature entry students returning to formal studies after an absence of some years, to non-credit Continuing Education students, and to at-risk and failed students. Advisors provide students with personalized guidance and support needed for full participation in university life.

21.2 STRATEGIC TRANSITION AND ENHANCED PREPARATION FOR UNIVERSITY PROGRAMS (STEPUP)

StepUp Course STC 9100/9200/9300/9400 (non-credit)

The StepUp course is designed to help students enhance their success at university. Throughout the course, students gain new perspectives on how they learn and how to study. They learn and practise study strategies appropriate for their personal learning style and apply them to course content from their other classes. Topic areas include learning from lectures, reading and remembering, preparing for exams, memory strategies, time-management and motivation. Course sections are discipline-specific, taught by subject-area specialists who focus on using study strategies and techniques on material from their field of study. Students have time to reflect on their learning, set and monitor personal goals, evaluate their current academic strengths and weaknesses, enhance their skills, and build confidence in their ability to succeed at university. A minimum attendance is required and specified by the instructor. The course is graded on a pass/fail basis.

Other qualifying programs will be periodically offered by the School. For more information, please contact the Student Transition Centre, §21.1.

21.3 CENTRE FOR CONTINUING EDUCATION

Director
MURRAY SANG
514-848-2424 ext. 3601

Administrator of the Language Institute
MAUREEN R. HABIB
514-848-2424 ext. 3607

*Assistant Director, and Administrator of Business
and Administration Programs and Computer
Institute*
JOHN DICKSON
514-848-2424 ext. 3603

Academic Coordinator, Language Institute
P. CHARLES BROWN
514-848-2424 ext. 3610

*Administrator of Visual Arts/Communications;
Hospitality Management and Tourism*
SANDRA ROZANSKY
514-848-2424 ext. 3605

Online Learning
514-848-2424 ext. 3604

*Courses in Health, Wellness, and Personal
Interest*
514-848-2424 ext. 3602

Location

Sir George Williams Campus
Faubourg Tower
1600 St. Catherine St. West, Room: FB 100
514-848-2424 ext. 3600

As part of its commitment to the lifelong pursuit of education, Concordia University, through its Centre for Continuing Education, offers a variety of non-credit educational programs for adults. These are designed to meet the practical needs and interests of people in the workplace, helping them to refine and improve their skills.

Students may choose individual courses or a program series to earn Certificates in a particular area. Acceptance to any of the Centre for Continuing Education's programs does not guarantee admission to, or credit towards, any of the University's degree programs. However, in certain circumstances, students who meet the academic requirements for admission to an undergraduate program but are lacking the necessary language skills may be offered conditional acceptance.

The Centre for Continuing Education calendar provides a description of the available courses and programs as well as the Centre's regulations pertaining to admission, tuition, and academic concerns.

21.3.1 Communications/ Visual Arts

Communications

Certificate in Multimedia (200 hours, Evening): This program introduces students to both the theory and practice of graphic design and visual communications applied to interactive documents. These hands-on courses (both manual and computer graphics) focus on developing students' technical skills and understanding of the visual language, and the use of typography following the principles of graphic design applied to softwares commonly used in the Web industry.

Certificate in Digital Photographic Imaging (200 hours, Evening): Considered the workhorse of advertising agencies, professional photo studios, illustrators, and independent graphic designers, Adobe Photoshop has become the world's leading software in 2-D imaging manipulation, retouching, and compositing. Students will acquire an in-depth knowledge of this software in order to produce stunning digital composites and graphics.

Certificate in Visual Communication and Design (200 hours, Evening): This program introduces students to both the theory and practice of graphic design and visual communication. These hands-on courses focus on developing the student's understanding and technical skills through the use of typography and the principles of graphic design.

Certificate in Creative Writing (200 hours, Evening): This program focuses on nourishing and developing each participant's creative bent through written expression. Students will learn how to prepare a portfolio and market their work for publication purposes.

Certificate in Graphic Applications in Desktop Publishing (200 hours, Evening): This program is intended for students interested in acquiring the software skills sought after in today's competitive graphic design world. Students will learn the fundamentals of sound graphic design and will learn how to apply their acquired software skills to render graphic design that successfully responds to the client requirements.

Certificat en infographie et édition électronique (200 heures, de jour, en français) : Ce programme intensif a été conçu pour les étudiants qui désirent se familiariser avec les logiciels les plus en demande dans l'industrie hautement concurrentielle du design graphique. Par le biais d'une formation

pratique, les étudiants arriveront à maîtriser des logiciels de mise en page tels qu'Adobe InDesign, Adobe Illustrator et Adobe Photoshop. Les étudiants seront aussi amenés à appliquer leurs nouvelles connaissances dans la création d'un design graphique qui répond aux exigences du client.

Certificate in Journalism (200 hours, Evening): This program focuses on developing and enhancing information-gathering and writing skills. Students interested in pursuing careers in freelance, news media or magazine writing will benefit from these practical courses. A Certificate in Journalism is awarded upon successful completion of 10 courses.

Certificate in Photography (200 hours, Evening): This program consists of five- and 10-week modules offered on a rotating schedule which emphasize the role of photography in the fine arts, commercial, digital, and documentary visions. The courses feature regular assignments with critiquing and evaluation in order to explore new techniques and allow for personal experimentation. The Digital Dimensions (Photoshop I, II, III) courses are given in an Apple Macintosh lab with a computer assigned to each student. Fashion Photography I, Fashion Photography II, Basic Portraiture and Wedding Photography, and Product Photography, are all hands-on courses in which students work and explore techniques using professional studio lighting equipment and props, furnished by the Centre for Continuing Education. *N.B. The equipment is only for in-class use and not for students to take out.*

** For optimal comprehension of the Photoshop software, it is recommended that students take both courses, 104M (level 1) and 114M (level 2), back to back in the same semester.*

Certificate in Public Relations (200 hours, Evening): This program offers practical courses to students interested in exploring the underlying concepts and techniques of public relations in a variety of areas: government, media, community, and corporate relations. A Certificate in Public Relations is awarded upon successful completion of 10 courses.

Certificate in Communications (200 hours, Day): This program takes a broad approach to the study of media and communications. The aim is to develop the student's appreciation of the role played by the mass media in society. Students will be prepared for a wide range of career opportunities in the media industries, in public relations and in government. Topics include News and Feature Writing, Basic Editing, Writing for Radio and TV, Effective Speaking, Technical Writing, Graphic Design Techniques, Video Production I, and Fundamentals of Public Relations. A Certificate is awarded upon successful completion of 10 courses.

Certificate in Video Production (200 hours, Evening): This program takes students behind the scenes with courses in video production. Students will acquire the different techniques needed to produce a video, such as scripting, storyboarding, and directing. Those wishing to pursue careers on the technical side of the media industry will benefit from this blend of theory and practice.

Visual Arts

The following courses are offered as interest courses only: Drawing, Life Drawing, Introduction to Acting Techniques, and Becoming a Museum Guide. In addition, the Centre offers courses in conjunction with the Museum of Fine Arts. These courses reflect the ongoing exhibits at the museum. There are no exams, and no certificate is awarded.

Learning Skills

These courses are geared to professionals wishing to further their career and to students interested in improving study skills or mastering effective learning strategies. Courses include Graduate Management Admission Test (GMAT) Preparation Course and Integral Calculus, Vectors and Matrices.

21.3.2 Business and Administration

Certificate in General Business Studies (200 hours, Evening or Online): This program provides students with a well-rounded business education, and is unique in that it allows students to design and individualize their own 200-hour Business Administration program. Students can choose courses from a variety of business areas that provide practical training for today's competitive job market and global economy.

Certificate in Conflict and Dispute Resolution (200 hours, Evening): This program provides students with a practical understanding of the origins of conflicts and disputes, and the means by which they can be resolved. The primary focus is the work environment. After laying appropriate foundation by introducing the legal system of Quebec, the laws and issues dealing with labour and unions and management, as well as the issues specific to interpersonal conflict, the Certificate culminates with an application course in mediation.

Certificate in Financial Management (200 hours, Day, Evening, or Online): Every successful business must be firmly grounded in sound financial management. The focus of this program is to cultivate proper financial practices, so as the manager/owner may make informed decisions with respect to, among other things, inventory, budgeting, and control.

Certificate in Human Resources Management (200 hours, Day, Evening, or Online): With the evolution of the workplace, the rules, regulations, rights, and responsibilities that impact on employer and employee are ever changing. This program focuses on the identification of key workplace issues, and the role of the human resource manager in their resolution.

Certificate in Integrated Marketing Communications (200 hours, Evening): This program focuses on how the disciplines of advertising, sales, public relations, and publicity can be applied to effectively communicate a message or image to a target market. Among other things, students get hands-on experience in the development and implementation of advertising campaigns, and learn to employ a variety of promotional techniques in a cohesive manner.

Certificate in International Trade (200 hours, Day, Evening, or Online): With the increasing globalization of business, even small enterprises are involved in international trade on a daily basis. This program focuses on the practical side of doing business across borders. Upon its completion, students will have gained an understanding of, among other things, the import-export process, international entrepreneurship, foreign investment, logistics, and distribution.

Certificate in Legal Practices (200 hours, Evening): This program is a fascinating, real-world study of some of the most prominent legal topics heard about every day. Students will also learn how to assess legal problems, which might facilitate the pursuit of a remedy. Students who complete this program will have a greater understanding and appreciation of many of the complex legal issues that challenge today's managers.

Certificate in Management (200 hours, Day, Evening, or Online): With work environments becoming increasingly diverse, managers are continually facing new and evolving challenges. The objective of this program is to provide students with the practical tools necessary for effective decision making, problem solving, and relationship building. Courses focus on, among other things, planning for change, job design, organizational structure, and managing employees.

Certificat en gestion (200 heures, de jour, en français) : Le monde du travail soumis à d'importantes et d'incessantes transformations exige des gestionnaires qu'ils soient constamment confrontés à de nouveaux défis. L'objectif du programme est de fournir à l'étudiant les outils nécessaires à la prise de décision, à la résolution de problème et à des relations de travail efficaces. Les cours porteront, entre autres, sur la planification, la définition des tâches, la structure organisationnelle et la gestion du personnel.

Certificate in Marketing (200 hours, Day, Evening, or Online): The most successful organizations, large and small, all have one thing in common: the ability to identify and satisfy the needs of their target market better than their competitors. This program exposes students to the elements of product, price, promotion, and distribution.

Certificat en marketing (200 heures, de jour, en français) : Les entreprises les plus florissantes, petites ou grandes, ont en commun cette habileté à identifier et à satisfaire les besoins de leur marché-cible beaucoup mieux que le fait la concurrence. Le programme sensibilise l'étudiant aux notions de produit, de prix, de promotion et de distribution. La plupart des cours de ce programme mettront l'accent sur les stratégies de développement.

Certificate in Purchasing and Inventory Control (200 hours, Evening): This program is designed for individuals who are beginning a career in purchasing and inventory control. Students who successfully complete specific courses in this program will be permitted to write PMAC (Purchasing Management Association of Canada) accreditation exams. These exams are administered by CAQ (*la Corporation des Approvisionneurs du Québec*), which is the Quebec Institute of PMAC. PMAC is a non-profit corporation with over 8,000 members in 11 institutes across Canada including approximately 1,100 in the province of Quebec. Information about PMAC/CAQ membership and its benefits can be found at www.caq.qc.ca.

21.3.3
Computer Institute

Certificate in Computer-Aided Design (200 hours, Evening): The Computer Institute offers this hands-on program to individuals wishing to complement or improve their competitiveness in engineering, product design, or any field where design and drafting are essential. Used in small to mid-sized industries, engineering and architectural firms, Autodesk's AutoCAD® forms the base of this program. Its flexibility in building models and prototypes and its ability to produce both simple and complex viewpoints make it an industry standard. Also offered are introductions to two comprehensive CAD/MCAD parametric solid modelling software packages utilized in today's industrial applications: CATIA® is utilized throughout North America and Europe as a fundamental computer design, analysis, and manufacturing program. Pro/ENGINEER®, has product capabilities that provide comprehensive

product development technology for concept and industrial design, detailed design, analysis, and manufacturing. CATIA® and Pro/ENGINEER® are both prevalent in large multinational industrial corporations, and are widely utilized in the major aerospace firms and the automotive industrial sector.

Certificate in Architectural Computer-Aided Design (200 hours, Evening): This program is designed to develop the specific professional software skills and techniques required in the fields of architectural and building studies. Instruction is based on two industry standard software packages, AutoCAD® and ArchiCAD®. Both have proven themselves as industry leaders for over 20 years. Autodesk's AutoCAD®, used in small to mid-sized industries, architectural and engineering firms, forms the base of this program. Its flexibility in building models and prototypes and its ability to produce both simple and complex viewpoints make it an industry standard. ArchiCAD® incorporates the latest BIM (Building Information Model) paradigm approach to architectural modelling at the core of its design process. Through the use of intelligent 3D parametric objects, ArchiCAD®-based designs can provide solutions that support and satisfy complex requirements through the complete design-build procedure. ArchiCAD® provides the benefits of designing in a 3D architectural environment with remarkable modelling flexibility. ArchiCAD® enables users to create a "virtual building" with virtual structural elements like walls, slabs, roofs, doors, windows, and furniture. It simulates the manner in which real buildings are constructed. As the 3D virtual building is created, all the required documentation and representations are derived automatically. This integrated information can be evaluated and analysed for the entire lifecycle of a project. ArchiCAD® also provides comprehensive presentation tools which can be utilized to portray architectural designs in a photorealistic manner.

Certificate in Computer Animation – Maya (200 hours, Day or Evening): Computer-generated multidimensional animation is used extensively in computer games, custom presentations, and film. This program focuses on the tools used by today's most productive and creative computer animators, artists, and studios. Graduates of the program will not only have mastered these tools to create exciting and professional animation but will also have learned techniques to increase their productivity and the realism of their creations.

Certificate in Information Technology – Business Software (200 hours, Evening or Online): This hands-on program allows students to gain the computer skills that can be easily applied to any business environment, in any sector of the work force. Students are exposed to the Microsoft Office® applications and tools, as well as the Web design techniques that today's employers are seeking. A number of the courses in this program are available in an online format.

Certificate in Information Technology – Web Design (200 hours, Day or Evening): This program offers a practical approach that focuses on providing students with the indispensable skills needed to advance in today's high-tech world. Web development on a PC platform entails a comprehensive knowledge of tools and aesthetics. This program not only focuses on mastering all of the most popular, powerful, and vital tools available for Web development today, it teaches how to use these tools effectively. Whether authoring a website for industry, for entertainment, or for personal reasons, the flexible skill-base gained here will provide the ability to create a vibrant, modern, and exciting Web presence.

Certificate in Information Technology – Web Programming (200 hours, Evening): This program offers a practical approach that focuses on providing students with the indispensable skills needed to advance in today's high-tech world. It provides the non-programmer with the skills required to develop applications for the Web, and is also a great stepping stone for non-programmers wishing to eventually advance to certificates in Java or .Net programming. Experienced programmers, project managers, and administrators will also want to attend these courses to upgrade or maintain their understanding of the latest developments in the IT industry.

Certificate in Java Enterprise Programming (200 hours, Evening): The Java 2 Enterprise Edition has emerged as the programming environment of choice for developing robust, reliable, and scalable software for mission-critical systems. Due to its platform independence, Java is ideal for developing a wide range of applications, from Web services and global enterprise applications to hand-held consumer devices and robotics. This Certificate is designed not only to expose students to a wide range of state-of-the-art technologies; it is aimed at their mastery of them. Students will design and code advanced Graphical User Interfaces, develop and publish Web services, as well as plan and implement multi-tiered applications. They will learn hands-on how to minimize memory and processing requirements when coding hand-held devices and robotics and how to design scalable and robust enterprise applications. Graduates of this program will have mastered the skills sought after by today's networked economy.

Certificate in Mechanical Computer-Aided Design MCAD (200 hours, Evening): This program is designed to develop advanced professional skills and techniques required in industry for Mechanical Computer-Aided Design. Working from a solid AutoCAD® base, this hands-on program provides instruction in two comprehensive CAD/MCAD parametric solid modelling software packages utilized in industrial

applications of mid-size and large-scale engineering firms and corporations. The software programs available are recognized as international industry standards. CATIA® is utilized throughout North America and Europe as a fundamental computer design, analysis, and manufacturing program. Pro/ENGINEER® has product capabilities that provide comprehensive product development technology for concept and industrial design, detailed design, analysis, and manufacturing. CATIA® and Pro/ENGINEER® are both prevalent in large, multinational industrial corporations, and are widely utilized in the major aerospace firms and the automotive industrial sector.

Certificate in Visual Studio.Net Programming (200 hours, Evening): Microsoft's Visual Studio.Net is the exciting new tool that is setting the standard for creating Internet/Intranet applications. The .net integrated development environment (IDE) transcends both operating systems and languages and is Microsoft's most flexible offering yet. This is an advanced program intended for those who would like to upgrade their programming skills to what promises to be the next wave of Internet programming. Students can build on their existing knowledge of C++, SQL, and HTML and learn how to program the Internet and more, using Visual Studio.Net.

21.3.4 Continuing Education Language Institute

English Language Programs

The *Intensive Program* (240 hours/8 levels) is primarily designed to prepare students to enter English-language universities or colleges; however, professionals or business people who require a high level of competency equally benefit from it. A Certificate of Proficiency is awarded upon successful completion of the Advanced 2 level. Students who successfully complete the Advanced 2 level, with a final grade of 70%, and who wish to continue their full-time studies at Concordia University, will automatically meet the English language proficiency requirements for admission.

The *Conversation Program* (40 hours/6 levels) is designed to help students improve their speaking and listening skills for social or work-related purposes. A Certificate of Proficiency is awarded upon successful completion of Level 6. This program is also offered in an accelerated format (4 hours/day) during the month of December.

The *Writing Workshop Program* (40 hours/5 levels) is designed to help students improve their writing skills and master the foundations of good writing from short writing tasks to reports. A Certificate of Proficiency is awarded upon successful completion of Level 5.

The *English Grammar Program* (40 hours/3 levels) is a comprehensive program based on the authentic use of English grammar in oral and written communicative discourse. Careful sequencing, systemic repetition, recycling, review, and expansion promote grammatical awareness and fluency.

The *English Language Proficiency Test Preparation Program* consists of two distinct courses to help students deal successfully with language proficiency tests such as the TOEFL and the CELDT. Students should have an intermediate level of English to qualify for courses in this program.

French Language Programs

The *French Language Program* allows students to register in one of its six levels, according to their proficiency. The program is offered in the morning, the evening, and Saturdays (40 hours). It is designed to give students the tools and practice they need in French to encourage and develop their linguistic abilities in their professional and social environment. A Certificate of Proficiency is awarded upon successful completion of Level 6. This program is also offered in an accelerated format (4 hours/day) during the months of July and December. In addition, a Grammar Program (40 hours/3 levels), as well as special courses in written French, are available to qualified students (40 hours).

Spanish Language Programs

The *Spanish Language Program* allows students to register in one of its five levels, according to their proficiency. The program is offered in the evening (40 hours). It is designed to give students the tools and practice they need in Spanish to encourage and develop their linguistic abilities in their professional and social environment. A Certificate of Proficiency is awarded upon successful completion of Level 5. This program is also offered in an accelerated format (4 hours/day) during the months of July and December.

Special language courses in English, French, and Spanish can be created to suit the needs of individual groups. Interested parties should contact the Institute for further information.

Other Language Courses

Introductory courses (40 hours) in Arabic, German, Italian, Japanese, Mandarin, and Russian are offered for those with little or no previous knowledge of the language. The courses will focus on vocabulary, pronunciation, and basic sentence structures that will allow students to communicate at a basic survival level.

<p>21.3.5 <i>General Seminars and Workshops</i></p>	<p>The Computer Institute and the Business and Administration Section regularly offer practical seminars and workshops to professionals, business personnel, and others who wish to enrich their computer and business knowledge and skills. The seminars and workshops are provided either in the Centre's own well-equipped facilities or at other seminar and business locations. For information on these workshops, contact the Centre for Continuing Education.</p>
<p>21.3.6 <i>Hospitality Management and Tourism</i></p>	<p><i>Certificate in Hospitality Management (200 hours, Day or Evening):</i> This program provides training in the special skills required to manage hotels, restaurants, and institutional and commissary food-service establishments. Students must successfully complete 10 courses to obtain the Certificate in Hospitality Management.</p> <p><i>Certificate in Tourism (200 hours, Day):</i> This program trains people for work in travel agencies, airlines, travel departments and other enterprises within the tourism industry. The courses are valuable to those beginning a career in tourism as well as to experienced travel agency employees interested in upgrading their skills. An intensive eight-week day program is also available. Candidates must successfully complete 10 courses to obtain the Certificate in Tourism.</p>
<p>21.3.7 <i>Online Learning</i></p>	<p>The Centre for Continuing Education now offers more of its regular non-credit Professional Career Program courses over the Internet for those students who require the flexible, convenient delivery that Web-based learning affords. Students can now complete the following certificate programs entirely online: General Business Studies, Financial Management, Human Resources Management, Information Technology Business Software, International Trade, Management, and Marketing.</p>
<p>21.3.8 <i>Courses in Health, Wellness, and Personal Interest</i></p>	<p>The Centre for Continuing Education is pleased to offer a series of intellectually exciting and challenging short courses centred on the following themes: Health and Wellness, Personal Investment, and Arts.</p> <p>This initiative reflects our commitment to delivering programs and courses for lifelong learning and reinforces the belief that an inquiring and active mind has a long-term positive influence on health. Each specialized course is delivered by an expert in the field and includes lectures and discussions. Please note that these courses are for interest only and participants are not required to write exams or submit assignments.</p>



teacher training and teacher certification

23.1 INTRODUCTION

23.2 ELIGIBILITY/ADMISSIONS REQUIREMENTS

23.3 APPLICATION FOR ADMISSION AND CERTIFICATION

23.4 CITIZENSHIP REQUIREMENTS

23.5 ASSISTANCE

section 23



23

TEACHER TRAINING AND TEACHER CERTIFICATION

Teacher Training and Teacher Certification:

Mr. Dominic Martini
Executive Director
Concordia Teacher Education Council

Mailing Address:
Office of the Provost and Vice-President, Academic Affairs
Concordia University
1455 De Maisonneuve Blvd. West
Room S-GM 806
Montreal, Quebec H3G 1M8
514-848-2424 ext. 8725

23.1 INTRODUCTION

The *Ministère de l'Éducation, du Loisir et du Sport* (MELS) certifies teachers for the primary and secondary schools of the province, following completion of an approved 120-credit program. This certification is also subject to legislative provisions on judicial antecedents. The MELS recognizes Concordia University as a centre for teacher training. Concordia offers three MELS-approved programs that grant teaching licences (*brevets d'enseignement*). Because Concordia University has chosen not to organize its teacher training programs into a single faculty, the programs are listed under different faculties and departments. Students interested in pursuing teacher training and certification are asked to consult with the appropriate faculties and academic departments for further information. These are:

Faculty of Arts and Science

Department of Education (See §31.090 and §31.090.1)

- Bachelor of Arts (BA), Specialization in Early Childhood and Elementary Education (120 credits)
- Bachelor of Education (BEd), Specialization in Teaching English as a Second Language (120 credits)

Faculty of Fine Arts

Department of Art Education (See §81.40)

- Bachelor of Fine Arts (BFA), Specialization in Art Education – Visual Arts (120 credits)

Concordia offers other Certificate and Diploma programs. Please refer to the Undergraduate Calendar for Certificate programs, and the School of Graduate Studies Calendar for Diploma and Graduate Certificate programs.

23.2 ELIGIBILITY/ADMISSIONS REQUIREMENTS

It is important to review the admissions regulations (see §13.3) and residency requirements (see §16.1.3) for eligibility in the MELS-approved programs.

23.3 APPLICATION FOR ADMISSION AND CERTIFICATION

Application forms are available from the Office of the Registrar. In addition, a separate department application form is required for the BA Specialization in Early Childhood and Elementary Education and for the BEd Specialization in Teaching English as a Second Language. These application forms should be downloaded from the Department of Education's website: <http://doe.concordia.ca>. Prior to graduation, forms to apply for teacher certification are available from the Office of the Registrar.

23.4 CITIZENSHIP REQUIREMENTS

Permanent teacher certification in Quebec is only available for Canadian Citizens and students who have Landed Immigrant status or who hold an appropriate work permit in accordance with Immigration Law of Quebec (L.R.Q., I-0.2).

23.5 ASSISTANCE

Graduates of Concordia University with certification problems should contact:
Direction de la formation et de la titularisation du personnel scolaire
Ministère de l'Éducation, du Loisir et du Sport
1035, rue de la Chevrotière, 28^e étage
Québec (Québec) G1R 5A5
Telephone: 418-643-2948 Fax: 418-643-2149



institute for co-operative education

s e c t i o n 2 4



24 INSTITUTE FOR CO-OPERATIVE EDUCATION

Principal and Director
CHRISTINE M. WEBB

Associate Director
CHEN F. HUANG

Fellows and Program Directors
ALI AKGUNDUZ, *Assistant Professor and Co-op Program Director, Mechanical and Industrial Engineering*
MERAL BÜYÜKKURT, *Associate Professor and Co-op Program Director, Decision Sciences and Management Information Systems*
WILLIAM P. BYERS, *Professor and Co-op Program Director, Mathematics and Statistics*
CHANTAL GAGNON, *Lecturer and Co-op Program Director, Translation*
CYNTHIA HAMMOND, *Assistant Professor and Co-op Program Director, Art History*
P.K. LANGSHAW, *Associate Professor and Interim Co-op Program Director, Design and Computation Arts*
LUIZ A. LOPES, *Associate Professor and Co-op Program Director, Electrical and Computer Engineering*

JAY MANNADIAR, *Senior Lecturer and Co-op Program Director, Finance*
SUSHIL K. MISRA, *Professor and Co-op Program Director, Physics*
MICHELLE NOKKEN, *Assistant Professor and Co-op Program Director, Building, Civil and Environmental Engineering*
DAN OTCHERE, *Associate Professor and Co-op Program Director, Economics*
JOEY PAQUET, *Assistant Professor and Co-op Program Director, Computer Science and Software Engineering*
SÉBASTIEN ROBIDOUX, *Assistant Professor and Co-op Program Director, Chemistry and Biochemistry*
SANDRA ROBINSON, *Lecturer and Co-op Program Director, Accountancy*
AHMET SATIR, *Professor and Co-op Program Director, Supply Chain Management*
BARBARA SHAPIRO, *Senior Lecturer and Co-op Program Director, Human Resource Management*
HAROLD J. SIMPKINS, *Senior Lecturer and Co-op Program Director, Marketing*

The University through the Institute for Co-operative Education offers programs in the co-operative format in the Departments of Chemistry and Biochemistry, Economics, French Translation, and Mathematics and Statistics in the Faculty of Arts and Science; in all Departments of the Faculty of Engineering and Computer Science; in the Departments of Accountancy, Finance, Decision Sciences and Management Information Systems, Human Resource Management, and Marketing in the John Molson School of Business; and in Art History and Design and Computation Arts in the Faculty of Fine Arts. As it becomes feasible, the University may consider offering other programs in the co-op format.

The Co-op Philosophy

Co-operative education is a structured educational strategy integrating academic studies with learning through program-relevant work experiences. It provides progressive experiences in integrating theory and practice, giving students the opportunity to transfer knowledge and skills between work and classroom settings.

Advantages of a Co-op Education

Integrating theory and practice in a structured and purposeful manner allows the student to come to terms with the realities of professional practice in a way that allows for the development of self-confidence, self-reliance, and self-motivation. From the work terms, students learn to accept responsibility and the importance of deadlines. Realistic career expectations may be more easily formed. In the Institute, besides technical knowledge and practical experience, students gain skills in interpersonal relations through participation in seminars, workshops, talks, and social activities.

Employers benefit as well. The employer who agrees to cooperate with the Institute benefits from the opportunity to evaluate prospective personnel without making permanent employment commitments and from the availability of students on a year-round basis. In recruiting permanent employees, they have available to them trained graduates with work experience who can be productive with little or no training period.

The collaboration between employers and faculty is mutually beneficial, providing an opportunity for employers to contribute to, and influence, the educational process, and for the faculty to become aware of the latest developments in industry. In some cases joint industry-university research projects result.

Admission to Co-op

Admission to co-op is selective based on academic performance, as well as other factors such as extracurricular activities, communication skills, motivation, personality, and drive. Applicants must be legally eligible to work in the public and private sectors.

Students applying should so indicate by filling the appropriate box on the University Admissions form. Selected applicants may be interviewed by the appropriate co-op committee. Applicants may be asked to provide a résumé of past work experience and a statement of the reasons for their interest in the co-op format.

All individuals applying to the co-op option in the Faculty of Engineering and Computer Science are required to submit a letter of intent and a curriculum vitae with their application form. The final decision to accept or reject an applicant rests with the Director, Institute for Co-operative Education.

Co-op Fee

Students should note that a co-op fee exists to cover in part the administrative costs particular to the co-op program. This fee is currently \$185 per term and is charged for eight consecutive terms. Students requiring fewer than the normal number of terms to complete their programs in the co-op format are subject to the same total fee (\$1,480) as those requiring the normal number of terms.

The payment of the co-op fee is spread over a number of terms (Fall, Winter, Summer). The number of terms and the level of the fee depend on the student's year of entry to the co-op program.

- For students admitted to a co-op program in their first year, the co-op fee is payable in each of the first eight sessions (Fall, Winter, or Summer) in which the student either enrolls in any number of courses or is on a work term, after which no further co-op fees will be payable.
- For students admitted to a co-op program after their first year, the co-op fee is levied at a somewhat higher level, but is payable in each of the first six sessions (Fall, Winter, or Summer) in which the student either enrolls in any number of courses or is on a work term, after which no further co-op fees will be payable.

Co-op fees are due one month before the first day of eligible terms and are not refundable after the first day of the second month of the term, i.e. February 1, June 1, and October 1.

Co-op Performance Requirements

Students permitted to undertake their studies in the co-op format enrol as regular undergraduates in their program and are subject to its academic regulations. However, higher performance standards are often required to continue in the co-op format.

Students undertaking the co-op format in a program are normally required to maintain a minimum GPA of 2.50 with no grade lower than a "D" in any course, elective or required. Students registered in Honours programs must meet the Faculty Honours program academic requirements.

The work-term evaluation consists of two components:

1. student work-term performance as evaluated by the Director of the Institute for Co-operative Education or delegate, with input from the employer;
2. the work-term report or communications component and presentation evaluated by faculty, the Director of the Institute for Co-operative Education or delegate.

Each component is evaluated separately. Students must successfully complete all required components to pass the work term which is marked on a pass/fail basis. A grade of pass with distinction may also be assigned to each of the work-term courses.

A failing grade for the work term or failure to meet the co-op academic requirements will normally result in the dismissal of the student from the Institute for Co-operative Education.

A student may be exempted from any work-term requirements if he or she submits medical and/or other evidence to support such exemption to the Director of the Institute for Co-operative Education.

Work Term

Co-operative education at Concordia is not to be construed as a placement operation or an inexpensive labour apprenticeship. The work term is an essential part of the student's learning experience and there is to be equitable remuneration paid for work performed. The University is responsible for negotiating work terms with employers who provide job descriptions to the Institute for Co-operative Education.

The procedures for matching students to employers are managed by the Institute. Students must be willing to work anywhere in Canada, and may go abroad for a work term. Students are required to be enrolled in an academic study term during the final term of their co-op program. A co-op coordinator or participating faculty member visits the students at their place of work to evaluate the work performance, gauge the learning opportunities, assess the compatibility of student and employer and, if necessary, takes corrective action. **It should be noted that the University does not guarantee every student a job.**

The work terms are designated as CWT 100, 200, 300, and 400 (Co-op Work Term I, II, III, and IV respectively). An appropriate letter is added to the course code to identify the student's area of study. These work terms carry no credit value and are used to indicate that the student is on a work term.

Reflective Learning Courses

A core feature of co-operative education is integration: there must be integration between work and classroom learning. Numerous ways exist to foster such integration. Reflective discussion is one technique that can be used in integration sessions to encourage students to analyse, compare, and contrast their work-term experiences. Other reflective learning techniques include assignments, seminar presentations, and the keeping of logs, diaries, observation reports, and portfolios.

The CWT 101, 201, 301, and 401 Reflective Learning courses are 3-credit extension courses to the work terms. These courses are marked on a pass/fail basis. They are above and beyond the credit requirements of the student's program and are not transferable nor are they included in the full- or part-time assessment status.

CWT 101 *Reflective Learning I* (3 credits)

Students are enrolled in this course immediately following their first work term. This is a forum for critically examining the workplace, for reflecting on personal work-term experiences, for building and testing hypotheses, for disciplined inquiry, and for setting goals. Activities provide opportunities for students to connect their work-term experiences to their related courses.

CWT 201 *Reflective Learning II* (3 credits)

Students are enrolled in this course immediately following their second work term. Using one or more of the techniques listed above, this course expands on students' second work-term experiences in their related field of study to further develop their knowledge and work-related skills.

CWT 301 *Reflective Learning III* (3 credits)

Students are enrolled in this course immediately following their third work term. Using one or more of the techniques listed above, this course expands on students' third work-term experiences in their related field of study to further develop their knowledge and work-related skills.

CWT 401 *Reflective Learning IV* (3 credits)

Students are enrolled in this course immediately following their third work term. Using one or more of the techniques listed above, this course expands on students' third work-term experiences in their related field of study to further develop their knowledge and work-related skills.

UNDERGRADUATE PROGRAMS

Co-op programs offered in the Faculty of Arts and Science:

Chemistry and Biochemistry Co-op

Program Director: Sébastien Robidoux, 514-848-2424 ext. 3377

The Chemistry and Biochemistry co-operative program is offered to students who are enrolled in the BSc Honours or Specialization in Chemistry, Biochemistry, Analytical Chemistry. Students in Chemistry and Biochemistry co-op take the regular academic program; however, in the work terms the employment opportunities range among a wide variety of industrial and government agencies located throughout Canada. Students are encouraged to choose their work-term positions in a way which provides them with experience ranging from basic analysis in industrial processes and environmental control to senior research placements in the laboratories of various employers. Please see §31.050 for specific details concerning the curriculum.

Economics Co-op

Program Director: Dan Otchere, 514-848-2424 ext. 3926

The Economics co-operative program enables students to complete a BA Honours or Specialization in Economics. The academic content of the Economics co-op program is identical to the regular program; however, the required work terms provide the co-op student with the unique opportunity of experiencing economics in an applied format.

Because of the course choices available, an Economics co-op student is prepared to undertake employment during his or her work terms in a variety of public sectors including provincial and federal government agencies. Private sector positions might include placements in banks, consulting firms, or planning departments in a variety of industries. Please see §31.080 for specific details concerning the curriculum.

Mathematics and Statistics Co-op

Program Director: William P. Byers, 514-848-2424 ext. 3243

The Mathematics and Statistics co-operative program allows students to complete the BA or BSc degrees with Honours or Specialization in Mathematics, Applied Mathematics, Statistics, Actuarial Mathematics, or Actuarial Mathematics/Finance. The academic content of the Mathematics and Statistics co-op programs is identical to the regular programs.

Work terms provide co-op students with the opportunity to gain practical experience with a variety of employers, such as insurance companies, consulting firms, large Canadian corporations, government departments, and research establishments. Please see §31.200 for specific details concerning the curriculum.

Physics Co-op

Program Director: Sushil K. Misra, 514-848-2424 ext. 3278

The Physics co-operative program is offered to students who are enrolled in the Specialization in Physics. Students in Physics co-op take the regular academic program; however, in the work terms the employment opportunities are from a wide variety of industrial and government agencies located throughout Canada. Students are encouraged to choose their work-term positions in a way which provides them with experience in applied mathematics, computer science, and electronics. Please see §31.230 for specific details concerning the curriculum.

Translation Co-op

Program Director: Chantal Gagnon, 514-848-2424 ext. 5596

The Translation co-operative program enables students to complete a specialized BA in Translation. The Translation co-op program is identical to the regular program; however, the required work terms provide the co-op students with the unique opportunity to apply their translation skills in the government and corporate sectors. Work opportunities are found in environments such as government ministries, communication departments, and various organizations such as technical publishers, consultants, advertising agencies, and similar. Please see §31.110 for specific details concerning the curriculum.

Co-op programs offered in the John Molson School of Business:**Accountancy Co-op**

Program Director: Sandra Robinson, 514-848-2424 ext. 2748

The Accountancy co-operative program is available to students who are enrolled in the BComm program and are majoring in Accountancy. The academic content is very similar to that of the regular programs, with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §61.40 for specific details concerning the curriculum.

Finance Co-op

Program Director: Jay Mannadiar, 514-848-2424 ext. 2919

The Finance co-operative program is available to students who are enrolled in the BComm program and are majoring in Finance. The academic content is very similar to that of the regular programs, with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. Most of the positions will be in the Montreal area, however, students must be prepared to work in other parts of Canada. Please see §61.70 for specific details concerning the curriculum.

Human Resource Management Co-op

Program Director: Barbara Shapiro, 514-848-2424 ext. 2780

The Human Resource Management co-operative program is available to students who are enrolled in the BComm program and are majoring in Human Resource Management. The academic content is very similar to that of the regular programs, with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §61.90 for specific details concerning the curriculum.

Management Information Systems Co-op

Program Director: Meral Büyükkurt, 514-848-2424 ext. 2741

The Management Information Systems co-operative program is available to students who are enrolled in the BComm program and are majoring in Management Information Systems. The academic content is very similar to that of the regular programs, with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §61.40 for specific details concerning the curriculum.

Marketing Co-op

Program Director: Harold J. Simpkins, 514-848-2424 ext. 2955

The Marketing co-operative program is available to students who are enrolled in the BComm program and are majoring in Marketing. The academic content is very similar to that of the regular programs,

with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §61.100 for specific details concerning the curriculum.

Supply Chain Operations Management Co-op

Program Director: Ahmet Satir, 514-848-2424 ext. 2975

The Supply Chain Operations Management co-operative program is available to students who are enrolled in the BComm program and are majoring in Supply Chain Operations Management. The academic content is very similar to that of the regular programs, with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §61.50 for specific details concerning the curriculum.

Co-op programs offered in the Faculty of Engineering and Computer Science:

Building and Civil Engineering Co-op

Program Director: Michelle Nokken, 514-848-2424 ext. 7806

The Building and Civil Engineering programs are offered in the co-op format to selected students pursuing undergraduate studies leading to the degree of BEng. The academic content of the co-op program is identical to the regular program but requires one additional course per term. Work-term opportunities range from a variety of industrial, government, and consulting organizations in and out of town. Students are encouraged to choose placement in both public and private sectors, and to mix office experience with site work. Please refer to §71.10.8 and 71.50 for specific information on program and performance requirements.

Electrical and Computer Engineering Co-op

Program Director: Luiz A. Lopes, 514-848-2424 ext. 3080

The Electrical and Computer Engineering programs are offered in the co-op format to selected students pursuing undergraduate studies leading to the degree of BEng. The academic content of the co-op program is identical to the regular program but requires one additional course per term. Work-term opportunities range from a variety of industrial, government, and consulting organizations in and out of town. Students are encouraged to choose placement in both public and private sectors, and to mix office experience with site work. Please refer to §71.10.8 and 71.50 for specific information on program and performance requirements.

Mechanical and Industrial Engineering Co-op

Program Director: Ali Akgunduz, 514-848-2424 ext. 3179

The Mechanical and Industrial Engineering programs are offered in the co-op format to selected students pursuing undergraduate studies leading to the degree of BEng. The academic content of the co-op program is identical to the regular program but requires one additional course per term. Work-term opportunities range from a variety of industrial, government, and consulting organizations in and out of town. Students are encouraged to choose placement in both public and private sectors, and to mix office experience with site work. Please refer to §71.10.8 and 71.40 for specific information on program and performance requirements.

Software Engineering Co-op

Program Director: Joey Paquet, 514-848-2424 ext. 7831

The Computer Science Department offers a co-operative program in Software Engineering. This is a four-year program which will lead to professional engineering qualifications in Software Engineering. The academic content is a mix of Computer Science and Engineering courses and is similar to that of the regular programs. Please see §71.70 for further details.

Computer Science Co-op

Program Director: Joey Paquet, 514-848-2424 ext. 7831

All options in the Computer Science program are offered in the co-op format to selected students enrolled in the BCompSc program. Co-op students in Computer Science take the regular academic

program; however, they have the opportunity through the work terms to experience computer science in the government and corporate sectors. As students near the end of their studies, they are able to choose placements directly related to their option, e.g. information systems, software systems, or computer applications. Please refer to §71.10.8 and 71.70 for specific information on program and performance requirements.

Co-op programs offered in the Faculty of Fine Arts:

Art History Co-op

Program Director: Cynthia Hammond, 514-848-2424 ext. 5171

The Art History co-operative program is available to students who are enrolled in the BFA program and are majoring in Art History. The academic content is the same as that of the regular program, with specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §81.50 for specific details concerning the curriculum.

Computation Arts Co-op

Interim Program Director: P.K. Langshaw, 514-848-2424 ext. 5020

The Computation Arts co-operative program is available to students who are enrolled in the BFA program and are majoring in Computation Arts. The academic content is the same as that of the regular program, with specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §81.90.2 for specific details concerning the curriculum.

Design Co-op

Interim Program Director: P.K. Langshaw, 514-848-2424 ext. 5020

The Design co-operative program is available to students who are enrolled in the BFA program and are majoring in Design. The academic content is the same as that of the regular program, with specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see §81.90.1 for specific details concerning the curriculum.

CO-OP SCHEDULES

Activity flow-chart for students undertaking their programs in the co-op format:

FACULTY OF ARTS AND SCIENCE

Bachelor of Arts or Science (Co-operative)

Chemistry and Biochemistry, Mathematics and Statistics, Physics

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Work Term 1
Year 2	Term 3	Work Term 2	Term 4
Year 3	Work Term 3	Term 5	Work Term 4
Year 4	Term 6	Graduate	

Economics

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Work Term 1
Year 2	Term 3	Work Term 2	Term 4
Year 3	Work Term 3	Term 5	Term 6
Year 4	Graduate		

Translation

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Term 3
Year 2	Work Term 1	Term 4	Work Term 2
Year 3	Term 5	Work Term 3	Term 6
Year 4	Graduate		

JOHN MOLSON SCHOOL OF BUSINESS

Bachelor of Commerce (Co-operative)

Accountancy, Finance, Human Resource Management, Management Information Systems, Marketing, Supply Chain Operations Management

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Term 3
Year 2	Work Term 1	Term 4	Work Term 2
Year 3	Term 5	Work Term 3	Term 6
Year 4	Graduate		

FACULTY OF ENGINEERING AND COMPUTER SCIENCE

Bachelor of Engineering (Co-operative)

All Engineering programs except Software

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Term 3
Year 2	Work Term 1	Term 4	Term 5
Year 3	Term 6	Work Term 2	Work Term 3
Year 4	Term 7	Term 8	Graduate

Software Engineering

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Term 3
Year 2	Work Term 1	Term 4	Work Term 2
Year 3	Term 5	Term 6	Work Term 3
Year 4	Term 7	Term 8	Graduate

Bachelor of Computer Science (Co-operative)

All Computer Science programs

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Work Term 1
Year 2	Term 3	Work Term 2	Term 4
Year 3	Work Term 3	Term 5	Term 6
Year 4	Graduate		

FACULTY OF FINE ARTS

Bachelor of Fine Arts (Co-operative)

Art History, Computation Arts, Design (this schedule may differ depending on individual student needs)

	Fall	Winter	Summer
Year 1	Term 1	Term 2	Work Term 1
Year 2	Term 3	Work Term 2	Term 4
Year 3	Work Term 3	Term 5	Term 6
Year 4	Graduate		

NOTE 1: The above activity flow-chart is for students admitted into the co-op format in the Fall Term of the first year of their academic program. However, students may be admitted at the start of the Winter Term, following their September entry, with special permission. All are required to register as full-time students, and they must plan their studies to give a reasonable division of the total credits required for their degree between the specified number of Campus terms. Students eligible to apply for NSERC grants should note that they must take at least 15 credits per term to be considered.

NOTE 2: The work term negotiated with the employer is for a minimum of 12 weeks. Extension beyond this period, to a maximum of 17 weeks, is at the sole discretion of the employer. To complete the requirements of each work term, a student's work performance and work-term report must be assessed as "pass" in accordance with the procedure specified under "Co-op Performance Requirements".

CONTACTS AT THE INSTITUTE

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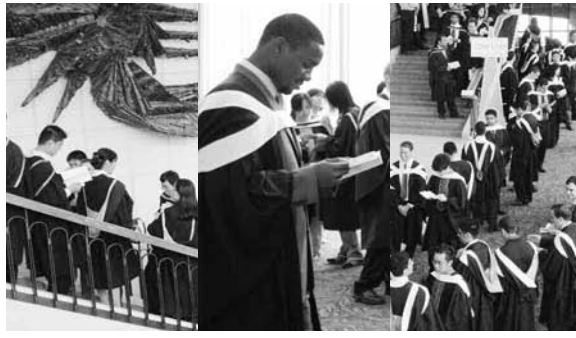
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convocation medals and prizes

25.1 GOVERNOR GENERAL'S AWARD

25.2 UNIVERSITY AWARDS

25.3 FACULTY AWARDS

25.3.1 Faculty of Arts and Science

25.3.2 John Molson School of Business

25.3.3 Faculty of Engineering and Computer Science

25.3.4 Faculty of Fine Arts

25.4 SPECIAL AWARDS

section 25



25

CONVOCATION MEDALS AND PRIZES

25.1 GOVERNOR GENERAL'S AWARD

The Governor General's Silver Medal: Conferred by her Excellency, the Governor General of Canada, and awarded to the highest ranking undergraduate student graduating from Concordia University.

25.2 UNIVERSITY AWARDS

The Final Graduation GPA is used as the basis to determine the highest ranking student.

The Rytsa Tobias Memorial Medal: Presented by the Tobias Family, and awarded to the highest ranking student graduating with a BA degree.

The Anne Stokes Medal: Awarded to the highest ranking student graduating with a BEd degree in Teaching English as a Second Language.

The Mappin Medal: Donated by the Mappin Family, and awarded to the highest ranking student graduating with a BSc degree.

The Administration Medal: Awarded to the highest ranking student graduating with a BAdmin degree.

The Charles E. Frosst Medal: Donated by Merck-Frosst Canada Inc., and awarded to the highest ranking student graduating with a BComm degree.

The Computer Science Medal: Awarded to the highest ranking student graduating with a BCompSc degree.

The Chait Medal: Awarded to the highest ranking student graduating with a BEng degree.

The Alfred Pinsky Medal: Awarded to the highest ranking student graduating with a BFA degree.

25.3 FACULTY AWARDS

The prizes listed in this section are awarded to the most outstanding graduating student in a department (or unit). Candidates are nominated by the departments or units for consideration and approved by the appropriate Faculty Council and Senate. The departments or units in making their selection may include, in addition to a high grade point average, other criteria such as number and/or level of the courses taken, outstanding results on a project or essay, or a significant contribution to the extra-curricular life of the department. In the Faculty of Engineering and Computer Science, the Final Graduation GPA is used as the basis to determine the grade point average.

25.3.1 Faculty of Arts and Science

The Biology Prize
The Chemistry Medal
The Classics Book Prize
The John E. O'Brien, s.j. Medal for Communication Studies
The Economics Prize
The Education Book Prize
The Medal for English
Le prix Paul d'Hollander pour les Études françaises
The Exercise Science Plaque
The Bogdan Zaborski Medal in Geography
The Martin Lewis Memorial Book Prize in History
The Robert C. Rae Book Prize in Human Relations
The Interdisciplinary Studies Medal
The Gordon Fisher Prize for Journalism
The Leisure Sciences Medal
The Liberal Arts College Prize
The Eric O'Connor Mathematics Medal
The Modern Languages and Linguistics Plaque

The W.R. Fraser Medal for Philosophy
The Walter Raudorf Medal for Physics
The Renée Vautelet Prize for Political Science
The J.W. Bridges Medal for Psychology
The Boyd Sinyard Prize for Religion
The Vince Sirois Prize (School of Community and Public Affairs)
The Science College Prize
The Everett C. Hughes Medal for Sociology and Anthropology
The Theological Studies Medal
The Thérèse F. Casgrain Medal for Women's Studies

25.3.2
John Molson School of
Business

The Ross Medal for Accountancy
The Decision Sciences and Management Information Systems Medal
The Finance Medal
The International Business Medal
The Management Medal
The Marketing Medal

25.3.3
Faculty of
Engineering and
Computer Science

The Building Engineering Medal
The Matthew Douglass Medal for Civil Engineering
The Computer Engineering Medal
The Phoivos Ziogas Medal for Electrical Engineering
The Jaan Saber Medal for Industrial Engineering
The Mechanical Engineering Medal
The Software Engineering Medal

25.3.4
Faculty of Fine Arts

The Art Education Prize
The R. Bella Rabinovitch Art History Prize
The Cinema Prize
The Computation Arts Prize
The Contemporary Dance Prize
The Design Prize
The Music Prize
The Yves Gaucher Prize in Studio Arts
The Betty Goodwin Prize in Studio Arts
The Guido Molinari Prize in Studio Arts
The Gabor Szilasi Prize in Studio Arts
The Studio Arts Prize
The Theatre Prize

25.4 Special Awards (Awards are given only when merited)

The Concordia Medal: Presented by the Concordia University Alumni Association to an undergraduate graduating student who has displayed distinctive leadership ability through both academic and non-academic achievements and has won the outstanding commendation of his/her fellows and of the faculty.

The First Graduating Class Award: Presented on behalf of the first graduating class of the Faculty of Arts, Science and Commerce of Sir George Williams College, known as the Guinea Pig Club, for the most innovative and new contribution either academic or extra-curricular to University life.

The Lieutenant Governor's Award: Conferred by the Honourable Lieutenant Governor of Quebec and awarded to an undergraduate graduating student in recognition of her/his social involvement and commitment to the community.

The Malone Medal: Presented in honour of Rev. Patrick G. Malone, s.j., and awarded to the undergraduate graduating student whose efforts and dedication best exemplify the values of the University within the *internal* Concordia community.

The O'Brien Medal: Presented in honour of Dr. J.W. O'Brien and awarded to the undergraduate graduating student whose efforts and dedication best exemplify the values of the University within the larger *external* community.



faculty of arts and science

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|--------|--|--------|---|
| 31.001 | FACULTY OF ARTS AND SCIENCE | 31.180 | JOURNALISM |
| 31.002 | PROGRAMS AND ADMISSION REQUIREMENTS | | LEISURE SCIENCES (See 31.010) |
| 31.003 | DEGREE REQUIREMENTS | 31.200 | MATHEMATICS AND STATISTICS |
| 31.004 | GENERAL EDUCATION | 31.220 | PHILOSOPHY |
| | ADULT EDUCATION (See 31.090.2) | 31.230 | PHYSICS |
| 31.010 | APPLIED HUMAN SCIENCES | 31.240 | POLITICAL SCIENCE |
| 31.030 | BIOLOGY | 31.250 | PSYCHOLOGY |
| | CANADIAN IRISH STUDIES (See 31.170) | 31.270 | RELIGION |
| 31.050 | CHEMISTRY AND BIOCHEMISTRY | 31.310 | SOCIOLOGY AND ANTHROPOLOGY |
| 31.060 | CLASSICS, MODERN LANGUAGES AND LINGUISTICS | | SOUTHERN ASIA STUDIES (See 31.270) |
| 31.070 | COMMUNICATION STUDIES | | TEACHING OF ENGLISH AS A SECOND LANGUAGE |
| 31.080 | ECONOMICS | | (See 31.090.1) |
| 31.090 | EDUCATION | 31.330 | THEOLOGICAL STUDIES |
| 31.100 | ENGLISH | | URBAN STUDIES (See 31.130.1) |
| | ENGLISH AS A SECOND LANGUAGE (See 31.090.1) | | WOMEN'S STUDIES (See 31.560) |
| 31.110 | ÉTUDES FRANÇAISES | 31.400 | COMPUTER SCIENCE (Minor) |
| 31.120 | EXERCISE SCIENCE | 31.500 | COLLEGES, INSTITUTES AND SCHOOLS |
| 31.130 | GEOGRAPHY, PLANNING AND ENVIRONMENT | 31.515 | CO-OPERATIVE EDUCATION |
| 31.160 | HISTORY | 31.520 | LIBERAL ARTS COLLEGE |
| | INTERDISCIPLINARY ELECTIVE GROUPS | 31.535 | LOYOLA INTERNATIONAL COLLEGE |
| | (See 31.170) | 31.540 | SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS |
| 31.170 | INTERDISCIPLINARY STUDIES | 31.550 | SCIENCE COLLEGE |
| | INTERDISCIPLINARY STUDIES IN SEXUALITY | 31.560 | SIMONE DE BEAUVOIR INSTITUTE |
| | (See 31.170) | | and WOMEN'S STUDIES |

section 31



31.001 FACULTY OF ARTS AND SCIENCE

Dean
DAVID GRAHAM

Associate Dean, Student Academic Services
M. CATHERINE BOLTON

Associate Dean, Academic Programs
JOANNE LOCKE

Associate Dean, Facilities
JUSTIN B. POWLOWSKI

Associate Dean, Research and Graduate Studies
GRAHAM CARR

<i>Location</i>	<i>Loyola Campus</i> Administration Building, Room: AD 229 514-848-2424 ext. 2080	<i>Sir George Williams Campus</i> Hall Building, Room: H 545 514-848-2424 ext. 2080
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<i>Structure</i>	<p>The Faculty of Arts and Science, comprised of the former Loyola Faculty of Arts and Science, the former Sir George Williams Faculty of Arts, and the former Sir George Williams Faculty of Science, was brought into being on July 1, 1977. For administrative purposes, the Faculty consists of departments, programs, Centres, Colleges, Institutes, and Schools. The Departments and other units of which the Faculty is comprised are as follows:</p>	
	<p><i>Departments</i></p> <ul style="list-style-type: none"> Applied Human Sciences Biology Chemistry and Biochemistry Classics, Modern Languages and Linguistics Communication Studies Economics Education English Études françaises Exercise Science Geography, Planning and Environment History Journalism Mathematics and Statistics Philosophy Physics Political Science Psychology Religion Sociology and Anthropology Theological Studies 	<p><i>Centre</i></p> <ul style="list-style-type: none"> Canadian Irish Studies <p><i>Colleges</i></p> <ul style="list-style-type: none"> Liberal Arts College Loyola International College School of Community and Public Affairs Science College Simone de Beauvoir Institute <p><i>Programs</i></p> <ul style="list-style-type: none"> Canadian Irish Studies Certificate in Arts and Science Individually Structured Program

<i>Objectives</i>	<p>The Faculty of Arts and Science is committed to responsible and innovative leadership in developing and disseminating knowledge and values and encouraging constructive social criticism. The Faculty achieves these objectives through inclusive and accessible academic programs which stress a broad-based, interdisciplinary approach to learning. We are dedicated to superior teaching and research supported by excellence in scholarship and creative activity, and a tradition of service to the community. The Faculty of Arts and Science serves many interdependent academic communities in an urban environment where students and faculty can pursue their shared commitment to lifelong learning.</p>
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Studies in Arts and Science

The Faculty of Arts and Science encourages all students to explore beyond the boundaries of their programs of concentration. This is facilitated by the program structure and graduation requirements of the undergraduate degrees (see §31.002 and 31.003). Undergraduate degrees normally require 90 credits of course work, consisting of at least one program of concentration (Major at 36 to 48 credits; Specialization or Honours at 60 or more credits). The balance

of the degree requirements may be made up of one or more Minors (24 to 30 credits), one or more elective groups (15 or 18 credits), or by courses selected from a broad spectrum of disciplines. Students are required to complete at least 24 credits outside the main area of concentration. Credits earned to meet the General Education requirement (see §31.004) may also be counted toward this 24-credit requirement.

Most Major programs are relatively short, allowing maximal development of interests outside the area of concentration. Two areas of concentration can be combined in a Double Major. Even longer programs (Specialization and Honours) allow students to diversify their studies for up to one third of their degree requirements.

Program structures thus permit students to obtain a judicious balance between concentrated study and exploration of broader interests. Department and Faculty advisors are available to help students develop a plan of study which accommodates their personal interests and satisfies degree requirements.

Programs of concentration and related Minors are published in the Calendar entries for each of the disciplines in the Faculty (§31.010 onward). To facilitate innovative exploration outside these standard disciplines, the Faculty offers many alternatives. First, the University has established six Colleges (§31.500 onward) which foster various philosophies and methods of education on an intimate scale. Second, it has created Majors which cross disciplinary boundaries (Southern Asia Studies and Women's Studies). In addition, selected students may create their own Individually Structured Program (§31.170) under the direction of the Faculty advisor. Finally, the Faculty offers cross-disciplinary Minors (for example, Canadian Irish Studies, Southern Asia Studies, and Women's Studies) and a number of Interdisciplinary courses (§31.170) which may be chosen as electives in any program.

A good education — balancing the development of expert knowledge in a narrow domain with broader academic experience — can be obtained in the Faculty of Arts and Science. The programs outlined are best considered as models of what can be planned by imaginative students and their academic advisors.

31.002 PROGRAMS AND ADMISSION REQUIREMENTS

General admission requirements are listed in §13.

Specific requirements for admission to the various programs leading to the BA, BEd, and BSc degrees, and to Certificates, are set out in the first column of the following listings. They refer to the table of Cegep pre-Arts and pre-Science profiles defined below. Students lacking one or more of these prerequisites may be admitted, but must include the designated prerequisites among the first 30 credits of their undergraduate program. In certain cases, the prerequisites must be taken in addition to the undergraduate program.

Profile	Requirements
0.00	Diploma of Collegial Studies (DEC — Diplôme d'études collégiales).
0.72	DEC or equivalent and appropriate teaching licence.
0.80	Full-time teaching position with an educational institution recognized by the Ministère de l'Éducation, du Loisir et du Sport du Québec (MELS) and a Provisional Teaching Authorization from the MELS.
3.14	Biology 301, 401, 911, 921 or 101-NYA.
4.03	Social Science DEC plus Mathematics 300 and Biology 921 (Social Science DEC includes Introductory Psychology).
4.10	DEC in Humanities or equivalent. Any other DEC including courses in Psychology and Quantitative Methods or its equivalent.
5.00	Natural Science DEC.
6.00	<i>DEC intégré en sciences, lettres et arts.</i>
10.1	Mathematics 337 or 103 and 307 or 201-NYA; Biology 301, 401, 911, 921 or 101-NYA; Psychology 101 or 102.
10.5	Two Cegep courses or equivalent in the language to be studied. If these courses have not been available in the Cegep attended, the student may be required to complete them at the university level.
10.9	Mathematics 103 or 201-NYA and 203 or 201-NYB; Physics 101 or 203-NYA and 201 or 203-NYB and 301 or 203-NYC; Chemistry 101 or 202-NYA and 201 or 202-NYB; Biology 301 or 101-NYA.

- 10.10 Mathematics 103 or 201-NYA and 203 or 201-NYB and 105 or 201-NYC; Physics 101 or 203-NYA and 201 or 203-NYB and 301 or 203-NYC; Chemistry 101 or 202-NYA and 201 or 202-NYB; Biology 301 or 101-NYA.
- 10.12 Mathematics 103 or 201-NYA and 203 or 201-NYB and 105 or 201-NYC.
- 10.13 There are no particular requirements for graduates of an anglophone Cegep other than the DEC. Graduates of a francophone Cegep must hold a DEC with an advanced course in English or have an equivalent background in English.
- A: Interview
- E: Essay
- G: Letter of intent
- K: Submission of a portfolio of representative work
- N: English proficiency test/Placement test
- P: Competency in written and oral French, to be determined by a proficiency test, the results of which may lead to the rejection of the candidate or the requirement of additional university courses.
- Q: Competency in written and oral English, to be determined by a proficiency test, the results of which may lead to the rejection of the candidate or the requirement of additional university courses.
- +: Two letters of reference; Early Childhood and Elementary Education and Teaching of English as a Second Language require three letters of reference.

Program titles refer to Honours, Specialization and Major components where these exist. Full information about the programs offered under each title (including combinations with programs in other disciplines) is to be found in the section of the Calendar specified in the third column below.

BA, BSc, BEd

Profile	Program	Calendar Section
0.00,A ^{Cert. only}	Adult Education	31.090.2
0.00	Anthropology	31.310
0.00	Anthropology and Sociology	31.310
10.9/5.00/6.00	Biochemistry	31.050
10.9/5.00/6.00	Biology	31.030
10.9/5.00/6.00	Cell and Molecular Biology	31.030
0.00	Canadian Irish Studies	31.170
0.00	Certificate in Arts and Science	31.170
10.9/5.00/6.00	Chemistry	31.050
0.00	Child Studies	31.090
0.00	Classics	31.060
0.00A,E,G,K,+	Communication Studies	31.070
0.00A,E,G,+	Communication and Cultural Studies	31.070
0.00A,E,G,K,Q+	Communication and Journalism	31.070, 31.180
0.00	Community and Ethnic Studies	31.310
0.00A,P,Q	Community, Public Affairs and Policy Studies	31.540
0.00G	Community Service	31.010
0.00G,K	Creative Writing (see also English and Creative Writing)	31.100
0.00A+	Early Childhood and Elementary Education	31.090
10.9/5.00/6.00	Ecology	31.030
0.00	Economics	31.080
0.00,A ^{Cert. only}	Education: Adult Education	31.090.2
	Education (see Child Studies; Early Childhood and Elementary Education; Teaching of English as a Second Language)	
0.00	English (see also Creative Writing; Professional Writing)	31.100
0.00G,K	English and Creative Writing	31.100

Profile	Program	Calendar Section
0.00	English and History	31.100, 31.160
0.00	English Literature	31.100
10.5	Études françaises (Spécialisation)	31.110
	Études françaises	31.110
10.5	Option: Langue ou littératures de langue française	
10.5	Option: Rédaction professionnelle	
10.5	Option: Traduction	
10.5G	Spécialisation en traduction	
0.00	Langue française (Mineure et certificat)	
10.5	Littératures de langue française (Mineure)	
10.9/5.00/6.00	Exercise Science	31.120
10.9/5.00/6.00	Exercise Science (Clinical Exercise Physiology, Athletic Therapy)	31.120
0.00G	Family Life Education	31.010
	French Studies — see Études françaises	
0.00	Geography, Planning and Environment (BA), Human Environment	31.130
10.9/5.00/6.00	Geography, Planning and Environment (BSc), Environmental Geography	31.130
10.9/5.00/6.00	Geography, Planning and Environment (BSc), Environmental Science	31.130
0.00	German	31.060
0.00	History	31.160
0.00	History and English	31.160, 31.100
0.00G	Human Relations	31.010
Appropriate	Interdisciplinary Studies — Individually Structured Program	31.170
0.00	Interdisciplinary Studies in Sexuality	31.170
0.00	Italian	31.060
0.00G,Q	Journalism	31.180
0.00,G ^{Honours}	Judaic Studies	31.270
0.00G	Leisure Sciences	31.010
0.00	Linguistics	31.060
10.12/6.00	Mathematics and Statistics (BA)	31.200
10.10/5.00/6.00	Mathematics and Statistics (BSc)	31.200
10.12/6.00	Mathematics (Actuarial — BA)	31.200
10.10/5.00/6.00	Mathematics (Actuarial — BSc)	31.200
10.12/6.00G	Mathematics (Actuarial Mathematics/Finance — BA)	31.200
10.10/5.00/6.00G	Mathematics (Actuarial Mathematics/Finance — BSc)	31.200
10.12/6.00G	Mathematics (Computational Finance — BA)	31.200
10.10/5.00/6.00G	Mathematics (Computational Finance — BSc)	31.200
10.12/6.00	Mathematics (Pure and Applied — BA)	31.200
10.10/5.00/6.00	Mathematics (Pure and Applied — BSc)	31.200
0.00G	Pastoral Ministry (Cert. only)	31.330
0.00	Philosophy	31.220
10.9/5.00/6.00	Physics	31.230
0.00	Political Science	31.240
0.00N	Professional Writing	31.100
10.1/4.03/6.00 or 3.14/4.10	Psychology (BA)	31.250
5.00/6.00/10.9	Psychology (BSc)	31.250
5.00/6.00/10.9	Psychology (Behavioural Neuroscience Option)	31.250
0.00,G ^{Honours}	Religion (see also Judaic Studies)	31.270
0.00	Sociology	31.310
0.00	Southern Asia Studies	31.270
0.00	Spanish	31.060
10.12/6.00	Statistics (BA)	31.200
10.10/5.00/6.00	Statistics (BSc)	31.200
10.13	Teaching of English as a Second Language	
A,G,P,Q,+		31.090.1
0.72	Teaching of English as a Second Language (Certificate)	31.090.1
G,Q,+		
0.00	Theological Studies (see also Pastoral Ministry)	31.330
3.14G	Therapeutic Recreation	31.010

Profile	Program	Calendar Section
0.00	Urban Planning	31.130.1
0.00	Urban Studies	31.130.1
0.00A,G ^{Honours}	Western Society and Culture	31.520
0.00	Women's Studies	31.560
0.00G	Youth Work and Family Relations	31.010

Mature Student Entry

Concordia University has a tradition of concern for the education of Mature students; it has always sought to assist students of 21 and over to undertake undergraduate studies.

The primary aim of the Centre for Mature Students is to develop services to students returning to formal studies after an absence of many years. It is difficult to plunge suddenly into a very large urban University after years away from classes and studying; therefore, the Fellows and staff of the Centre hope to reach out to all Mature Entry students to offer them encouragement and guidance. The Centre has quarters on both campuses that function as a "home base" for students who want counselling or are simply in need of some social contact with their peers (see §14).

Extended Credit Program

Students admitted to BA and BEd Extended Credit Programs are required to complete an additional 30 credits for the degree and must include the following 30 credits:

- 30 elective credits, of which a maximum of 12 may be outside the Faculty of Arts and Science. Certain departments in the Faculty have specific requirements. Students intending to follow programs of concentration within these departments must include the specified components as part of their program.

BA Mathematics: 9 credits in Mathematics — 203³, 204³, 205^{3*}

**Students not having MATH 202³, or the equivalent, must take it in place of one of their elective courses.*

BA Psychology: 3 credits in Mathematics
3 credits in Biology
6 credits in Psychology

BA Therapeutic Recreation: BIOL 200³ or 201³ or 202³, or equivalent

Students admitted to the BSc Extended Credit Program are required to complete an additional 30 credits for the BSc degree and must include the following 30 credits:

- 6 credits in Chemistry 205³, 206³
- 6 credits in Mathematics 203³, 205^{3*}
- 12 credits in Physics 204³, 205³, 206³, 224¹, 225¹, 226¹
- 3 credits in Biology 201³
- 3 credits in Mathematics 204³ for students intending to enter programs of concentration in Mathematics or Physics;** or electives for all other students

**Students not having MATH 201³, or the equivalent, must take it in place of one of their elective courses.*

***Students not having MATH 202³, or the equivalent, must take it in place of one of their elective courses.*

NOTE: Students in the BA, BEd or BSc Extended Credit Program may not count towards their programs of concentration courses taken as part of the first 30 credits.

31.003 DEGREE REQUIREMENTS

In accordance with the recommendations of the Council of Universities of Quebec, the credit base takes into account the total activity of the student. A student preparing for the BA, BEd, or BSc degree takes a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours spread across lectures, conferences, tutorials, laboratories, studio or practice periods, tests, examinations, and personal work.

Since the Cegep programs are designed to give all students the opportunity to explore different fields and thus acquire a broad general basis for further study, the undergraduate programs in the Faculty of Arts and Science require some degree of concentration in specific areas. Detailed statements about these programs are made under the appropriate disciplinary headings in the sections of the Calendar that follow this general account of degree requirements. They represent four main forms of concentration: the *Minor*, the *Major*, the *Specialization*, and *Honours*; and a fifth form, the *Certificate*. The University's formal definitions of these kinds of programs are set out in §16.2.3; for the convenience of students in Arts and Science, those definitions as they are construed in the Faculty are briefly repeated below.

The *Minor* is a program consisting of a *minimum* of 24 specified credits in a single discipline and professing to give a basic introduction to the methodology and key concepts of that discipline. A Minor cannot in and by itself provide the concentration required of a candidate for a degree and is therefore always taken in combination with another program. In addition to the Interdisciplinary and Disciplinary Minors available in Arts and Science, students may register with approval for selected Minors in other Faculties. Available Arts and Science Interdisciplinary Minors are listed in §31.170. Disciplinary Minors are indicated in the Calendar entry of each Department or College.

The **Faculty of Arts and Science** and the **John Molson School of Business**:

With the approval of the John Molson School of Business, Arts and Science students may take a Minor in Business Studies (see §61.140).

The **Faculty of Arts and Science** and the **Faculty of Engineering and Computer Science**:

With the approval of the Faculty of Engineering and Computer Science, Arts and Science students may take a Minor in Computer Science (see §71.70.5).

All Minors in the **Faculty of Fine Arts** are open to suitably qualified students.

The *Major* consists of a *minimum* of 36 specified credits taken in an approved sequence of courses. Normally within a major program not more than 36 credits are required from a single discipline or department. In certain programs, however, additional credits are required in cognate disciplines and departments. The Major provides a solid grounding in the academic knowledge comprehended within the field of concentration. To enter and remain in it, a student normally does not have to meet a special performance requirement; see, however, Western Society and Culture §31.520. Students with appropriate admission requirements, normally after completion of 24 credits, may request permission to be admitted to a second program of concentration in the Faculty, normally a Major. Exceptionally, students may complete a second Major in the Faculty of Fine Arts with permission of both Faculties. Students may apply to add a major program normally offered as part of a BA degree to a BSc degree or BEd degree or vice-versa. Attainment of acceptable GPA and satisfactory academic standing are required. The Faculty of Arts and Science will consider favourably such requests subject to admission quotas and the student having the appropriate prerequisite and admission profile (see §31.002). The student record and official transcript indicate all programs of concentration. Specific courses can only be used to fulfil the requirements of one program.

Students completing the requirements of a BA, BEd, BSc, and/or BFA will elect one degree for graduation.

The *Specialization* consists of a *minimum* of 60 specified credits, normally not more than 54 credits of which are mandated from a single discipline or department. A Specialization provides a comprehensive education in the field of concentration, but to enter and remain in it, a student normally does not have to meet a special performance requirement unless otherwise indicated in the program. Students interested in subsequent "classification" by the provincial government may be advised to follow a Specialization or an Honours program. Second programs of concentration (Minor or Major) may be combined with a Specialization program according to regulations described above for those programs.

The *Honours* program consists of a *minimum* of 60 specified credits taken in an approved sequence of courses. Normally within an Honours program not more than 60 credits are mandated from a single discipline or department in the Arts and 72 credits in the Sciences. Additional credits may be required in cognate disciplines and departments. Superior academic performance is required for admission to and continuation in the Honours program, the precise level of such performance being determined by Senate. See §16.2.3 and *Faculty Honours Regulations* set out below for matters governing Honours programs at Concordia. An Honours degree or equivalent, because it testifies to a student's comprehensive education in a particular field, intellectual commitment to that field, and achievement of a high level of academic performance, has traditionally been required of entrants to postgraduate programs.

Graduation Requirements

1. A candidate for graduation must have successfully completed a program of concentration in the form of an *Honours*, *Specialization*, or *Major* program.
2. A candidate for graduation must have successfully completed at least 24 credits outside the single discipline or department from which the degree concentration has been chosen. Within every block of 30 credits taken towards the degree, a student will normally choose no more than 24 credits from any one discipline or department.
3. A candidate for graduation must have successfully completed at least 18 credits from courses in Arts and Science in every block of 30 credits taken towards the degree.
4. A candidate for the BA degree must have qualified for admission to, and successfully completed, a program leading to that degree. Specific admission requirements, expressed as Cegep pre-Arts profiles, are given in §31.002. Students wishing to transfer out of one degree program into another must satisfy the admission requirements of the program they seek to enter.
5. Students enrolled in a regular degree program or an Extended Credit degree Program in the Faculty of Arts and Science may take ESL courses for degree credit, up to a maximum of six credits.

6. A candidate for the BSc degree must have qualified for admission to, and successfully completed, a program leading to that degree. Specific admission requirements, expressed as Cegep pre-Science profiles, are given in §31.002. Students wishing to transfer out of one degree program into another must satisfy the admission requirements of the program they seek to enter.
 7. A candidate for the BEd degree must have qualified for admission to, and successfully completed, the program leading to that degree. The admission and degree requirements are set out in §31.090.1.
 8. In general, the credits obtained for any course may not be used to satisfy the requirements of more than one program. Students first registered in certain Certificate programs may however apply credits obtained towards the Certificate to a degree program.
 9. Independent students will be permitted to apply *no more* than 30 credits obtained as an Independent student towards any Arts and Science Faculty degree program.
 10. Those students entering the Faculty of Arts and Science as degree students beginning in the academic year 2002-03 must fulfil the general education requirement outlined in §31.004.
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Supplemental Examinations (Arts and Science)

Supplemental examinations shall be offered only when, as a condition for passing the course, it is required that a student pass the final examination regardless of its weighting; or where the final examination contributes 50% or more of the final grade.

A student failing a course which comprises entirely, or in part, a laboratory or similar practicum, may not be eligible to write a supplemental examination.

All courses which a student fails and for which there is no supplemental examination shall be graded "FNS" or "R".

A failed student (see §16.3.11 V) may not write supplemental examinations.

Honours Programs

The Faculty of Arts and Science has programs leading to an Honours degree in certain selected fields. To enter an Honours program, students may apply either for direct entry on admission or, if already admitted to a program in the Faculty of Arts and Science, to the Departmental Honours Advisor. The Department will notify the Office of the Registrar of the acceptance.

Honours Regulations (Faculty Regulations) see also §16.2.3

In order to qualify for an Honours degree, a student must comply with the regulations set forth below.

1. An Honours student must meet the general degree requirements, as well as the specific requirements for an Honours degree. A student must complete a minimum of 30 credits in the courses from the Honours component of the program at this University to receive a degree with Honours. In certain cases, these 30 credits may include some specific courses for which pro-tanto credit may not be awarded.
2. Students who through their past studies have demonstrated a high level of performance may apply for direct entry to an Honours program on admission. Information specific to the academic unit may be found in the Undergraduate Application for Admission.
3. Students already admitted to a program at Concordia University may apply for entry into an Honours program with a minimum cumulative GPA of 3.30 (B+). It is normally advisable that students have completed 30 Concordia credits in their program before applying for admission to the Honours program. Averages are calculated on Concordia courses only.
4. All students must maintain a minimum cumulative GPA of 3.30 as well as a minimum annual GPA of 3.30 within the Honours program. The minimum acceptable grade in any course is normally "C".
5. Students who are withdrawn from the Honours program may proceed in the corresponding Specialization or Major program. Reinstatement in the Honours program is possible only by appeal to the Faculty Honours Committee.
6. A student is allowed to qualify for only one Honours degree in either a single or combined Honours program. A student may qualify for a Minor or Major program in addition to an Honours program. In general, the credits obtained for a particular course may be used to satisfy the requirements of only one program.

Students may appeal the determination of their status or interpretation of requirements in the Honours program. Such appeals should be addressed to the Associate Dean, Student Academic Services. The Faculty of Arts and Science has an Honours Committee made up as follows: three faculty members; one student member; two Student Academic Services Counsellors (non-voting); one representative of the Office of the Registrar (non-voting); and the Associate Dean, Student Academic Services. The Chair of the Faculty Honours Committee shall be appointed by the Dean from amongst the three faculty members.

The Faculty Honours Committee considers applications from Departmental Honours Advisors submitted on behalf of the students for exceptions to the Honours regulations. It also adjudicates disputes between students and departments concerning Honours programs. Since the Faculty Honours Committee cannot hear appeals contesting its own judgements, students and departments who wish to appeal a decision of the Faculty Honours Committee should address this appeal to the Dean of the Faculty.

31.003.1
Academic
Performance
Regulations

Objectives

The objectives of these regulations are to ensure that the Faculty can certify that all of its graduates have achieved an acceptable level of scholarship.

Annual Weighted Grade Point Average (WGPA)* Requirements and Consequences

*See §16.3.11 for definition of Annual WGPA.

Acceptable standing requires that a student obtain an Annual WGPA of at least 2.00.

NOTE: Although a "C-" grade (1.70 grade points) is designated as satisfactory in §16.3.3, a WGPA of 2.00 is required for acceptable standing.

Students in acceptable standing may continue their programs of study, following the advice of their academic departments.

Conditional standing results when a student obtains an Annual WGPA of less than 2.00, but at least 1.50. A student is not permitted to obtain two consecutive conditional standing assessments.

Students in conditional standing may not write supplemental examinations.

Students in conditional standing will not be permitted to register for further study until their program has been approved by the appropriate advisor in their department.

They must obtain acceptable standing at the time of their next assessment.

Failed standing results when a student obtains an Annual WGPA of less than 1.50, or conditional standing in two consecutive periods of assessment.

Failed students may not write Supplemental examinations.

Failed students are required to withdraw from their program. Students who are in failed standing for a second time will be dismissed from the University. In subsequent years, should they wish to return to University studies, they must contact the Office of the Registrar for information concerning conditions and procedures for seeking readmission. Decisions of the relevant authority in the Faculty to which application is made are final.

Failed students who are not dismissed may apply for readmission through the Dean's Office of the Faculty to which they wish to be readmitted. If readmitted, they will be placed on academic probation. They must return to acceptable standing at the time of their next assessment. Other conditions will be determined at the time of readmission.

Graduation Requirements

Students must satisfy all course requirements and be in acceptable standing.

The standings of potential graduates who have attempted less than 12 credits since their last assessment are determined on the basis that these credits constitute an extension of the last assessment period.

Potential graduates who fail to meet the requirements of acceptable standing, but meet the requirements of conditional standing, will have the following options:

a) register for an additional 12 credits and, at the next assessment, meet the requirements for acceptable standing;

or

b) register for fewer than 12 additional credits.

In this case, standing will be determined on the basis that these extra credits constitute an extension of the last assessment period.

For both option a) and option b), the additional courses taken must be approved by the appropriate member of the Dean's Office, in consultation with the student's department where necessary.

Dean's Office

Dean's Office

Dean's Office is to be understood as being the appropriate member of the Dean's Office, normally the Associate Dean, Student Academic Services, or delegate.

31.003.2
Registration
Regulations

Lapsed Program

Students enrolled in an Honours, Specialization, or Major program in the Faculty of Arts and Science who have not registered for a course for nine consecutive terms or more will have a lapsed notation entered on their student record. Lapsed students must meet with the appropriate advisor in order to continue in their program and to be made aware of possible program modifications.

31.003.3
In Progress "IP"
Notations

Students should refer to §16.3.7 for Procedures and Regulations.
The In Progress "IP" notation is reserved for the following courses offered by the Faculty of Arts and Science:

ACTU 492 ³	Reading Course in Actuarial Mathematics
ACTU 493 ⁶	Honours Project in Actuarial Mathematics
AHSC 435 ³	Fieldwork Practice
AHSC 437 ⁶	Internship in Leisure Sciences
AHSC 438 ⁹	Internship in Therapeutic Recreation
AHSC 439 ⁶	Internship in Human Relations
ANTH 315 ⁶	Field Research
ANTH 495 ⁶	Honours Essay
BIOL 490 ⁶	Independent Study
CATA 390 ³	Athletic Therapy Field Internship
CATA 480 ³	Athletic Therapy Clinical Internship
CHEM 419 ⁶	Independent Study and Practicum
CHEM 450 ⁶	Research Project and Thesis
COMS 494 ³	Communication Studies Apprenticeship I
COMS 495 ³	Communication Studies Apprenticeship II
COMS 496 ³	Directed Study I
COMS 497 ³	Directed Study II
ENGL 474 ³	Honours Essay
ENGL 480 ³	Independent Studies
EXCI 383 ³	Clinical Exercise Physiology Internship I
EXCI 483 ³	Clinical Exercise Physiology Internship II
FTRA 420 ⁶	Stage de formation : de l'anglais au français
FTRA 421 ⁶	Stage de formation : du français à l'anglais
FTRA 422 ³	Stage de formation : de l'anglais au français I
FTRA 423 ³	Stage de formation : du français à l'anglais I
FTRA 424 ³	Stage de formation : de l'anglais au français II
FTRA 425 ³	Stage de formation : du français à l'anglais II
GEOG 490 ³	Internship in Geography
GEOG 491 ⁶	Honours Essay
HIST 304 ³	Tutorial Preparation for the Honours Essay
HIST 393 ⁶	Honours Essay Tutorial
JOUR 450 ³	Independent Study
JOUR 451 ³	Independent Study
MAST 398 ³	Reading Course in Mathematics and Statistics
MATH 495 ³	Reading Course in Pure and Applied Mathematics
MATH 496 ⁶	Honours Project in Pure and Applied Mathematics
PHYS 497 ³	Independent Study and Project
POLI 495 ⁶	Honours Thesis
POLI 497 ³	Internship
PSYC 311 ³	Research Experience in Psychology
PSYC 400 ⁶	Advanced Experimental Psychology
PSYC 430 ⁶	Honours Thesis
PSYC 439 ⁶	Directed Research in Psychology
RELI 410 ⁶	Honours Thesis
RELI 496 ³	Independent Studies in Religion
SCOL 290 ³	Directed and Independent Study I
SCOL 390 ³	Directed and Independent Study II
SCOL 490 ⁶	Directed and Independent Study III
SCPA 411 ³	Internship
SOCI 409 ⁶	Honours Seminar
SOCI 415 ⁶	Field Research
STAT 498 ³	Reading Course in Statistics
STAT 499 ⁶	Honours Project in Statistics
URBS 483 ³	Directed Studies/Practicum in Urban Planning I
URBS 484 ³	Directed Studies/Practicum in Urban Planning II
URBS 491 ⁶	Honours Thesis or Project
WSDB 496 ⁶	Directed Research

31.004 GENERAL EDUCATION

Coordinator

JOANNE LOCKE, *Associate Dean, Academic Programs*

Location

Loyola Campus
Faculty of Arts and Science
7141 Sherbrooke Street West
514-848-2424 ext. 2088
E-mail: gened@alcor.concordia.ca

Objectives

An education for life requires the ability to read, write, speak, reason, compute, and listen effectively. This is true for all students, whether they are in the social sciences, humanities, natural sciences, or any other faculty in the University. The General Education Requirement is meant to provide breadth to the student's program of study.

Regulations

A candidate for graduation must satisfy the Arts and Science General Education Requirement by successfully completing a minimum of six credits from course offerings outside the candidate's disciplinary sector.

The disciplinary sectors comprising the Faculty of Arts and Science are Humanities, Social Science, and Science. The academic units within each sector are as follows:

HUMANITIES: Classics, Modern Languages and Linguistics; Communication Studies; English; Études françaises; History; Journalism; Liberal Arts College; Loyola International College; Philosophy; Theological Studies

SOCIAL SCIENCE: Applied Human Sciences; Economics; Education; Geography, Planning and Environment; Political Science; Religion; School of Community and Public Affairs; Simone de Beauvoir Institute; Sociology and Anthropology

SCIENCE: Biology; Chemistry/Biochemistry; Exercise Science; Mathematics and Statistics; Physics; Psychology; Science College

Courses falling under the administrative umbrella of Interdisciplinary Studies are considered for General Education Requirement purposes to fall within the Social Sciences.

Students may also count courses offered by the John Molson School of Business, the Faculty of Engineering and Computer Science, and the Faculty of Fine Arts toward their General Education Requirement.

Students enrolled in two areas of concentration which are both within the same disciplinary sector are required to take six credits outside of the sector. For example, students enrolled in a BA Major in History and a BA Major in Theological Studies, both of which fall within the Humanities, must fulfil the requirement by successfully completing either six credits from the Social Science or Science sector, or three credits from the Social Science sector and three credits from the Science sector, or six credits from outside the Faculty of Arts and Science.

Students enrolled in two areas of concentration drawn from different disciplinary sectors will be considered as having satisfied the General Education Requirement. For example, students enrolled in a BA Major in Sociology (Social Science) and a BA Major in English (Humanities) will be considered as having satisfied the General Education Requirement.

Students enrolled in an undergraduate Certificate program are exempt from the General Education requirement as are students pursuing a second or subsequent undergraduate degree.

ESL courses or introductory English language courses are not considered as substitutions for this requirement.

31.010

APPLIED HUMAN SCIENCES

Faculty	<p><i>Chair</i> LISA OSTIGUY, Associate Professor</p> <p><i>Professor and Graduate Program Director</i> DONALD W. DE GUERRE</p> <p><i>Professors</i> JAMES F. GAVIN BLUMA LITNER RANDY B. SWEDBURG</p> <p><i>Associate Professors</i> CATHERINE CONNOLLY RAYE KASS VARDA MANN-FEDER HILARY ROSE</p>	<p><i>Assistant Professors</i> FERN DELAMERE GILBERT ÉMOND SHANNON HEBBLETHWAITE WARREN LINDS PETER MORDEN ROSEMARY REILLY</p> <p><i>Senior Lecturer</i> ROBERT HOPP</p> <p><i>Lecturers</i> STEVEN HENLE EVA POMEROY</p> <p><i>Adjunct Professor</i> MERRILYN EMERY</p>
Location	<p><i>Loyola Campus</i> 7141 Sherbrooke St. W., Room: VE 223 514-848-2424 ext. 3330 or 2260</p>	
Department Objectives	<p>The strategic objective of the Department of Applied Human Sciences is to improve quality of life and well-being. This is accomplished through the integration of theory and practice to promote effective practitioner skill. The Department of Applied Human Sciences is an interdisciplinary and applied academic unit which generates knowledge and provides practice-based education in human relations, leisure sciences, therapeutic recreation, youth work and family relations, human systems intervention, family life education and community service. Involvement in practical contexts beyond the University provides an important link with members of the community, thereby offering a genuine environment for the exchange of knowledge and expertise.</p>	
Programs	<p><i>Students in Human Relations, Leisure Sciences, Therapeutic Recreation, and Youth Work and Family Relations are required to complete the appropriate entrance profiles. The entrance profile is 0.00G for Human Relations; 0.00G for Leisure Sciences; 3.14G for Therapeutic Recreation; and 0.00G for Youth Work and Family Relations.</i></p> <p><i>Students are responsible for satisfying their particular degree requirements.</i></p> <p><i>The superscript indicates credit value.</i></p>	
	<p>60 BA Specialization in Human Relations <i>NOTE: INTE 296 or equivalent is a prerequisite for this program.</i></p> <p>15 AHSC 220³, 230³, 232³, 260³, 270³</p> <p>18 AHSC 311³, 330⁶, 370³, 380³, 382³</p> <p>6 AHSC 439⁶</p> <p>6 Chosen from AHSC 423³ and 425³ or 443³ and 445³</p> <p>15 Elective credits chosen from AHSC 225³, 241³, 312³, 313³, 314³, 315³, 316³, 319³, 323³, 333³, 335³, 351⁶, 360³, 371³, 375³, 402³, 422³, 444³, 460⁶, 465³, 470³</p> <p>60 BA Specialization in Leisure Sciences <i>NOTE: INTE 296 or equivalent is a prerequisite for this program.</i></p> <p>12 AHSC 220³, 230³, 241³, 260³</p> <p>15 AHSC 350³, 361³, 371³, 380³, 382³</p> <p>12 AHSC 427³, 431³, 437⁶</p> <p>9 HIST 215³; PHIL 255³; and either AHSC 285³ or SOCI 244³</p>	<p>12 Chosen from Recreation Programming or Recreation Administration</p> <p><i>Recreation Programming</i> AHSC 281³, 310³, 311³, 314³, 316³, 319³, 323³, 333³, 340³, 360³, 402³, 421³, 422³, 444³, 450³, 460⁶, 490³, 491³</p> <p><i>Recreation Administration</i> <i>(Chosen from at least three areas)</i> ACCO 230³, 240³; ADMI 201³, 202³; ECON 201³, 203³; INTE 290³; MANA 211⁶, 266³; MARK 201³</p> <p>60 BA Specialization in Therapeutic Recreation <i>NOTE: INTE 296 or equivalent is a prerequisite for this program.</i></p> <p>15 AHSC 220³, 230³, 241³, 260³, 281³</p> <p>21 AHSC 350³, 361³, 380³, 381³, 382³, 383³, 384³</p>

9	AHSC 427 ³ , 432 ³ , 450 ³	12	Elective credits chosen in consultation with the Department from AHSC 225 ³ , 241 ³ , 312 ³ , 313 ³ , 314 ³ , 315 ³ , 316 ³ , 319 ³ , 323 ³ , 333 ³ , 335 ³ , 351 ⁶ , 360 ³ , 371 ³ , 375 ³ , 402 ³ , 422 ³ , 425 ³ , 444 ³ , 445 ³ , 460 ⁶ , 465 ³ , 470 ³
9	AHSC 438 ⁹		
6	HIST 215 ³ ; PHIL 255 ³		
60	BA Specialization in Youth Work and Family Relations*	42	BA Major in Leisure Sciences
	<i>NOTE: INTE 296 or equivalent is a prerequisite for this program.</i>	24	AHSC 220 ³ , 230 ³ , 241 ³ , 260 ³ , 350 ³ , 361 ³ , 371 ³ , 427 ³
12	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³	9	HIST 215 ³ ; PHIL 255 ³ ; and either AHSC 285 ³ or SOCI 244 ³
30	AHSC 311 ³ , 312 ³ , 313 ³ , 320 ³ , 330 ⁶ , 351 ⁶ , 380 ³ , 382 ³	9	Chosen from AHSC 281 ³ , 310 ³ , 311 ³ , 314 ³ , 316 ³ , 319 ³ , 323 ³ , 333 ³ , 340 ³ , 360 ³ , 402 ³ , 421 ³ , 422 ³ , 444 ³ , 450 ³ , 460 ⁶
<i>*Subject to MELS approval.</i>			
	<i>Youth Work</i>	30	Minor in Human Relations
18	AHSC 314 ³ , 402 ³ , 405 ³ , 410 ³ , 485 ⁶	12	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³
	or	6	AHSC 330 ⁶
	<i>Family Relations</i>	12	Elective credits chosen from AHSC 225 ³ , 241 ³ , 270 ³ , 311 ³ , 312 ³ , 313 ³ , 314 ³ , 315 ³ , 316 ³ , 319 ³ , 323 ³ , 333 ³ , 335 ³ , 351 ⁶ , 360 ³ , 371 ³ , 375 ³ , 402 ³ , 422 ³ , 444 ³ , 460 ⁶ , 470 ³
18	AHSC 316 ³ , 355 ³ , 456 ³ , 465 ³ , 480 ⁶		
42	BA Major in Human Relations		
15	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³ , 270 ³		
9	AHSC 311 ³ , 330 ⁶		
3	AHSC 435 ³		
3	Chosen from AHSC 423 ³ , 443 ³		

Certificate in Community Service

The Department of Applied Human Sciences offers a 30-credit program leading to the Concordia University Certificate in Community Service. Students may transfer into the Certificate program up to 12 credits, as approved by a departmental undergraduate advisor, earned in an incomplete degree or Certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

Students are required to complete the 0.00G entrance profile to enter the Certificate.

Mature entry students require the prerequisite: ENGL 212³.

30 Certificate in Community Service

NOTE: AHSC 230³, 232³, and 270³ are prerequisites for courses included in this Certificate.

Phase I

6 AHSC 260³, 370³

Phase II

9 AHSC 315³, 330⁶

Phase III

6 Chosen from AHSC 423³ and 425³ or 443³ and 445³ or 460⁶

9 Elective credits chosen from AHSC 220³, 225³, 311³, 314³, 316³, 319³, 333³, 335³, 371³, 375³, 422³, 444³

NOTE: In the event that a student is awarded an exemption from a required course, it will be necessary for the student to replace that course with another relevant to the program, chosen in consultation with the Coordinator of Undergraduate Programs.

Certificate in Family Life Education

The Department of Applied Human Sciences offers a 30-credit program leading to the Concordia University Certificate in Family Life Education. Students may transfer into the Certificate program up to 12 credits, as approved by a departmental undergraduate advisor, earned in an incomplete degree or Certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

Students are required to complete the 0.00G entrance profile to enter the Certificate.

Mature entry students require the prerequisite: ENGL 212³.

30 Certificate in Family Life Education

NOTE: AHSC 220³, 230³, and 232³ are prerequisites for courses included in this Certificate.

Phase I

12 AHSC 260³, 312³, 313³, 355³

- Phase II
6 AHSC 330⁶
Phase III
3 AHSC 435³
9 Elective credits chosen from AHSC 225³, 270³, 311³, 314³, 315³, 316³, 319³, 323³, 335³, 360³, 444³, 460⁶, 465³

NOTE: In the event that a student is awarded an exemption from a required course, it will be necessary for the student to replace that course with another relevant to the program, chosen in consultation with the Coordinator of Undergraduate Programs.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

AHSC 220 *Life Span Growth and Development for Practitioners* (3 credits)

This course provides a theoretical overview of the developmental patterns and typical challenges in each stage of human life from birth to death. Students learn about normative changes in the context of historical and cultural influences in relation to identity-related differences. The course focuses on typical age-related concerns and intervention-related issues.

AHSC 223 *Relationships Across the Lifespan* (3 credits)

This course is designed to provide a theoretical overview of how relationships are formed, sustained, and developed/changed in each stage of human life. A variety of theories and perspectives are explored.

NOTE: AHSC students may not take this course for credit.

NOTE: Students who have received credit for AHSC 220, or for this topic under an AHSC or AHSZ 298 number, may not take this course for credit.

AHSC 225 *Self-Managed Learning* (3 credits)

This course fosters effectiveness in orienting and directing learning which is precipitated by new personal interests and goals and/or by changing personal circumstances. It enables students to create clear personal visions, set relevant learning goals, create and organize related activities, and assess their progress. The course provides learning process models and ways to identify personal stylistic differences which affect personal learning progress and strategies.

AHSC 230 *Interpersonal Communication and Relationships* (3 credits)

This course is designed to provide knowledge and skill in building and maintaining interpersonal relationships characterized by mutual understanding and respect. Students can expect to enhance their understanding of effective communication behaviour and to improve their abilities to attend to verbal and non-verbal communication from others, exchange constructive feedback with others, engage in effective problem-solving, address and deal constructively with conflict, and communicate across differences, such as gender and race. Conceptual perspectives feature

attention to contextual influences in relationship dynamics and the role of affect in interpersonal communication. The course also examines ethical and value considerations.

AHSC 232 *Working in Task Groups* (3 credits)

Prerequisite: AHSC 230. This course is an introduction to understanding interaction and developmental processes of small groups and skill-building for effective participation. It enables students to learn observational frameworks, process observation, collaborative problem-solving and decision-making, and facilitative member roles. It provides opportunities to learn to draw relationships between observations and conceptualizations which highlight developmental stages, contextual and structural influences (such as minority-majority relations), and personal style differences.

AHSC 241 *Recreation and Leisure in Contemporary Society* (3 credits)

This course introduces students to the theories and relationships of play, perceptions of free and discretionary time, concepts of leisure, and the historical foundations for the discipline. The concepts are presented as integral components of today's lifestyle. In addition, the organized recreation system is examined, with an introduction to the leisure services delivery system. The students also examine the role that leisure plays in current societal issues.

AHSC 260 *Program Planning, Design and Evaluation* (3 credits)

The course prepares students to construct effective interactive programs designed for specific client populations. Using program design principles and practices, students match learning activities to desired program outcomes, while considering participant qualities and contextual features. Emphasis is placed on assessment, design, and evaluation knowledge and skills.

AHSC 270 *Introduction to Intervention in Human Systems* (3 credits)

This course is an introduction to theory of human systems change from an interventionist perspective. It overviews general strategies of human systems intervention and salient models of practice highlighting conditions under which different intervention strategies are most effective. It especially focuses on the principles of fostering

participation, collaborative inquiry, process facilitation and consultation, experiential learning, and action research. The course also features attention to values and ethical issues associated with specific strategies.

AHSC 281 *Introduction to Therapeutic Recreation* (3 credits)

An examination of the fundamental concepts of therapeutic recreation. Included is the study of the historical foundations and the basic terminology, purposes, and theories of therapeutic recreation.

AHSC 285 *Social Psychology of Leisure* (3 credits)

Prerequisite: AHSC 241 previously or concurrently. This course examines how personal and social factors shape individuals' perceptions, experiences, and responses to the availability of discretionary time. Students review current theory and research focusing on the relationship between leisure and individual functioning, and applications to human problems associated with leisure.

NOTE: Students who have received credit for PSYC 286 or for this topic under an AHSC 298 number may not take this course for credit.

AHSC 298 *Selected Topics in Applied Human Sciences* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

AHSC 310 *Tourism in Canada* (3 credits)

This course presents an examination of the tourism industry in Canada, including concepts, research, practices, and promotion. Topics covered include destination motivation, commercial recreation, business travel, trends in tourism development, government agencies, the economics of promotion, social objectives, market segmentation, and ethical and legal considerations.

AHSC 311 *Respecting Diversity in Human Relations* (3 credits)

Prerequisite: AHSC 230. This course examines the significance of identity-related differences, such as disability, age, gender, race, ethnicity, sexual orientation, in human relationships and social settings. Students can expect to learn about the nature and effects of negative stereotyping and biases in personal perspectives, institutional practices, and cultural norms. It fosters the development of awareness and skill in communicating and relating across these differences. Building on skills and understanding of relationships, the course fosters the development of an awareness of diversity issues and how diversity impacts communication and relationships.

NOTE: Students who have received credit for AHSC 245 may not take this course for credit.

AHSC 312 *Sexuality in Human Relations* (3 credits)

Prerequisite: AHSC 230. This course provides

students with knowledge of physical and psychosocial aspects of sexuality in relationships through life and examines values, attitudes, and issues related to the development and expression of sexuality. Topics include gender, family, cultural and media influences; historically and culturally based attitudes; prevention and sexually transmitted diseases; self-perception and identity in sexuality; and emotion and sexuality. The course aims to foster respect for persons and diversity.

NOTE: Students who have received credit for AHSC 253 may not take this course for credit.

AHSC 313 *Family Communication* (3 credits)

Prerequisite: AHSC 220, AHSC 230. This course is a requirement for students enrolled in the Certificate in Family Life Education. This course is an examination of patterns, effective approaches, and issues in communication among persons in primary partnerships and families. It also explores topics such as diversity in forms of "family", decision-making, problem-solving, power relations, gender issues, managing differences in expectations, and the influences of cultural, social, and economic contexts.

NOTE: Students who have received credit for AHSC 254 may not take this course for credit.

AHSC 314 *Adolescence: Issues and Intervention* (3 credits)

Prerequisite: AHSC 220. This course links knowledge of adolescent development to a more detailed examination of related adolescent patterns and issues, including peer relations and friendship, parental and family relations, identity, sexuality and gender, and socio-economic and cultural influences. Directed towards students interested in working with adolescents, the course combines theoretical and practical knowledge relating to adolescents, their parents and their concerns for the purpose of enhancing the adolescent experience.

AHSC 315 *Interviewing* (3 credits)

Prerequisite: AHSC 230. This course reviews different forms and concepts relevant to interviewing for use in work and community settings. It examines communication influences on the interviewer and interviewee and the limitations of different interview approaches. It enables students to structure and design interviews, to build rapport, and to manage information flow.

NOTE: Students who have received credit for AHSC 256 may not take this course for credit.

AHSC 316 *Adulthood: Patterns and Transitions* (3 credits)

Prerequisite: AHSC 220, 230. This course examines transitions and developmental change through early adulthood and middle age. Relevant adult development theories are reviewed. Students explore the nature and significance of life transitions, choices and

contextual influences. The course includes a consideration of the societal values inherent in notions of maturity, optimal environments, and interventions to enhance quality of life.

AHSC 319 *Older Adulthood: Issues and Intervention* (3 credits)

Prerequisite: AHSC 220. This course explores developmental change patterns and differences among people in older adulthood. Topics include retirement and pensions, concepts of health, fitness, well-being and models of health care, housing and transportation, leisure, family and social relations, ethnicity and aging, loss and grief, death and dying. Designed for persons interested in working with older adults, the course fosters awareness of myths, stereotypes and ageism, and emphasizes an attention to community social support and interventions which are enabling.

AHSC 320 *Family and Youth Legislation* (3 credits)

Prerequisite: AHSC 220; 313 previously or concurrently. This course reviews all aspects of federal and provincial legislation that impact on practice with families. Legislation governing marriage, divorce and custody, family violence, child and youth protection and placement, youth crime, child advocacy and challenges of working with families in relation to the legislation, are presented with a particular focus on the rights of children and the legal responsibilities of practitioners.

AHSC 323 *Gender and Leisure* (3 credits)

Prerequisite: AHSC 241 and 30 credits. This course focuses on theory and empirical research concerning the relationships between gender and leisure. This includes topics such as the effect of gender on leisure meanings, constraints to leisure, and participation in leisure. In addition, this course explores the cultural influences of leisure related to gender identity and gender relations. As part of this, the course explores the role that leisure plays as a significant site for the social construction and contestation of gender. Emphasis is placed on understanding ways in which gender relations and gender role expectations affect and are affected by leisure.

AHSC 330 *Leadership in Small Groups* (6 credits)

Prerequisite: AHSC 230, 232; 260 previously or concurrently. This course develops facilitative approaches to leadership in small groups. Students learn effective ways to observe and to interpret the significance of group behaviour for the purpose of intervening effectively. The course highlights factors optimizing participation, patterns of communication and influence, decision-making, problem-solving, collaborative planning, conflict management, and effects of gender and other identity-related differences. It assists students to identify their leadership styles and to foster flexibility in adapting to diverse group situations.

AHSC 333 *Leisure and the Environment* (3 credits)

Prerequisite: 30 credits. This course examines the state of the natural environment, and explains how leisure service providers play a crucial leadership role in fulfilling the needs of both the public and the environment.

NOTE: Students who have received credit for this topic under a LESR 398 number may not take this course for credit.

AHSC 335 *Power and Conflict Resolution in Human Systems* (3 credits)

Prerequisite: Completion of 30 credits for students enrolled in a social science program. This course gives students a theoretical and practical overview of the role of power and conflict in human relationships and human systems — groups, organizations, and communities. The concept of power is explored in depth since the use of power is central in both the creation and the resolution of conflict. The course focuses on the development of analytical tools that serve to identify the different elements leading to, maintaining or escalating conflicts. Particular attention is given to ethics associated with the use of power and management of conflict.

AHSC 340 *Employee Recreation Services* (3 credits)

Prerequisite: AHSC 241. Examination of the origins and development of recreation related to the place of employment. Critical analysis of the research literature in the areas of: work/leisure relationships; cost/benefits; government intervention; program design and family involvement.

AHSC 350 *Leisure Education* (3 credits)

Prerequisite: AHSC 241. This course offers an introduction to the field of leisure education. The history and underlying philosophy of the concept is presented. The roles of the school, community, and community-serving agencies are examined. Existing models are analysed and discussed.

AHSC 351 *Basic Counselling Skills and Concepts* (6 credits)

Prerequisite: AHSC 230. This course introduces students to counselling theories and develops an understanding for theoretical and value frameworks of the helping relationship. It fosters the development of basic helping relationship skills applicable in everyday relationships in work and social settings. Skill areas include attending skills, such as attending to nonverbal behaviour, reflection of content, reflection of feeling, paraphrasing and summarizing; and influencing skills, such as interpretation and analysis. Also highlighted are ethical issues and attention to cultural differences.

AHSC 355 *Foundations of Family Life Education* (3 credits)

Prerequisite: AHSC 230, 232, 313; AHSC 260 previously or concurrently. This course examines Family Life Education from its inception as a field

of practice to its current status in North America. It highlights complex related issues and the role of the educator, including attention to personal values and ethical principles of the practitioner. Topics include distinctions between prevention education and therapeutic intervention, and an overview of the range of different family life education programs and current practices.

AHSC 360 *Play, Adult Learning and Development* (3 credits)

Prerequisite: AHSC 220. This course examines the concept of play in adult learning and development. Gender, age, ethnic and social class diversity are explored as they relate to adult play behaviour.

AHSC 361 *Leisure Services Leadership* (3 credits)

Prerequisite: AHSC 230, 241. This course offers an analysis of leadership theory and its application to leisure services. Major topics are the principles and practices of leadership, group dynamics, leadership skill development and program planning, and the unique role of the leisure leader.

AHSC 370 *Principles and Practices of Human Systems Intervention* (3 credits)

Prerequisite: AHSC 270. The focus of this course is on the *practice* of human system intervention from a pragmatic as well as a theoretical perspective. The course emphasizes collaborative strategies for effecting change in human systems within a broad range of intervention alternatives. It focuses on the interventionist's role in effective change strategy development, initiation, management, and evaluation. Students can also expect to develop intervention practice skills including **issue definition and assessment, data gathering techniques, intervention planning processes, information feedback mechanisms and processes, and change evaluation methodologies.** The course is taught with a special focus on personal and professional values and ethical issues related to human systems intervention.

AHSC 371 *Community Recreation Planning* (3 credits)

Prerequisite: AHSC 241, 260. The course focuses on the application of recreation planning, theory, and skills. It examines methods and procedures used to assess client needs, design and deliver programs and services, and evaluate their impact. Practical experience is gained through a combination of **field experience, project planning, and group work.**

AHSC 375 *Organizational Leadership: A Human Systems Approach* (3 credits)

Prerequisite: AHSC 270. This course is an introduction to the practice of leadership in organizations with a human systems approach and perspective. The course examines a range of theoretical concepts current in organizational leadership practice including systems thinking,

team-based leadership, and strategy formulation from a leadership perspective. It provides an opportunity for students to examine ethics, values, and abilities required in organizational leadership today.

AHSC 380 *Quantitative Research Methods for Practitioners* (3 credits)

Prerequisite: INTE 296 or equivalent. This course gives an overview of a range of data collection and analysis strategies which are relevant to collaborative and participative intervention practice. It examines practical considerations for **selecting specific quantitative approaches** and prepares students to formulate and administer intervention-related questionnaires, to conduct basic quantitative analyses, and to present data results to interested individuals and groups. The course also examines basic ethical requirements in conducting applied social research.

AHSC 381 *Concepts in Therapeutic Recreation Programming* (3 credits)

Prerequisite: AHSC 241, 260, 281. This course explores current therapeutic recreation practices with emphasis on rehabilitation in community and clinical settings such as hospitals, group homes, psychiatric centres, rehabilitation clinics, and correctional centres. Leisure planning and assessment models are studied to identify the modes of recreational activity which may be used as an intervention.

AHSC 382 *Qualitative Research Methods for Practitioners* (3 credits)

Prerequisite: AHSC 380 (recommended to be taken in the same academic year). This course gives an overview of a range of qualitative approaches to practical projects and interventions. It prepares students to design and conduct interviews (including making decisions about respondent selection) with individuals and in focus groups, as well as participant observation. It also enables students to analyse qualitative data from these sources as well as documentary sources in light of practical project purposes. The course highlights special ethical considerations in conducting qualitative forms of applied social research.

AHSC 383 *Therapeutic Recreation and Physical Disabilities* (3 credits)

Prerequisite: AHSC 220, 281. This course gives an overview of the role and impact of therapeutic recreation services for individuals with physical disabilities and limitations. It analyses the barriers to recreation participation along with the planning and designing of a safe and accessible recreational environment.

AHSC 384 *Therapeutic Recreation: Cognitive Disabilities and Illness* (3 credits)

Prerequisite: AHSC 220, 281. This course gives an overview of the role of therapeutic recreation

services for individuals with cognitive disabilities and limitations or illness. It focuses on the etiology, impact, and barriers related to specific conditions. It also studies legislation trends and resources for community recreation integration and the role of transitional programs.

AHSC 398 *Selected Topics in Applied Human Sciences* (3 credits)

AHSC 399 *Selected Topics in Applied Human Sciences* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

AHSC 402 *Fundamentals of Child- and Youth-Care Work* (3 credits)

Prerequisite: AHSC 220, 230, 314. The objectives of this course are to provide students with an understanding of the scope and status of child- and youth-care work, to sensitize them to the necessary competencies and daily challenges of this work in a range of settings, and to review relevant theory. Federal and provincial legislation, which apply to this practice, are also presented. A major focus of the course is on developing skill in intervention planning and relationship building with youth.

NOTE: Students who have received credit for this topic under an AHSC 398 number may not take this course for credit.

AHSC 405 *Youth Work Intervention* (3 credits)

Prerequisite: AHSC 402 previously or concurrently. This course focuses on problems of children and youth, including difficulties with attachment, behaviour disorders, consequences of abuse and neglect, and substance abuse. It covers models of intervention and assessment that are current in youth work such as Therapeutic Crisis Intervention (TCI), strength-based approaches, and therapeutic procedures.

AHSC 410 *Advanced Youth Work Intervention* (3 credits)

Prerequisite: AHSC 405. This course covers specialized professional skills of youth work. There is a required fieldwork component to include one hour per week of observation in a child and youth care setting. The goal of the course is to assist the student in individualizing intervention plans, and in evaluating outcomes of intervention within the context of ethical youth work practice.

AHSC 421 *Political and Legal Aspects of Leisure Services* (3 credits)

Prerequisite: AHSC 241; 60 credits. This course provides students with a theoretical understanding of the complexity of providing leisure services in the province of Quebec. The course examines the administration of leisure services in municipal, regional, provincial, and federal governments. The course examines law

as it applies to aspects of recreational activities in the areas of organization, supervision, and participation. The course covers the Quebec Civil Code, the Canadian Constitution, and the Quebec and Canadian Charter of Rights and Freedoms as they apply to the study of leisure. *NOTE: Students who have received credit for this topic under a LESR 398 or 498 number may not take this course for credit.*

AHSC 422 *Youth and Leisure* (3 credits)

Prerequisite: AHSC 330 or 361. This course develops an understanding of the leisure needs of youth from emotional, physical, psychological, and sociological perspectives. Major areas of discussion include leisure preferences and needs assessment, strategies for programming, dealing with youth-at-risk, and recreational opportunities for youth. Lectures and laboratory.

NOTE: Students who have received credit for this topic under a LESR 399 number may not take this course for credit.

AHSC 423 *Organization Development I* (3 credits)

Prerequisite: AHSC 230, 232, 270, 330. This course introduces students to the characteristics of organizations as open systems. The evolution of organization development and the principle theories and perspectives that have helped to define the field are studied. Organization development methods as well as criteria for examining organizational effectiveness, underlying beliefs, values, and assumptions are examined. Key concepts covered are organization vision, mission and goals, and organization norms and culture. *NOTE: Students who have received credit for APSS 420 or AHSC 420 may not take this course for credit.*

AHSC 425 *Organization Development II* (3 credits)

Prerequisite: AHSC 230, 232, 330, 423. This course provides students with the opportunity to apply organization development concepts and strategies to effect change in organizations. Using theoretical, case, and experiential approaches, the focus of instruction progressively guides the student through the stages of organization development. Concepts covered include entry and contracting, identifying organizational issues and goals for change, collecting and analysing pertinent organizational data, and diagnosis and feedback to the client. Opportunities for the development of change-agent skills are provided through the emphasis on in-class applications. *NOTE: Students who have received credit for APSS 420 or AHSC 420 may not take this course for credit.*

AHSC 427 *Administration of Leisure Services* (3 credits)

Prerequisite: AHSC 361; AHSC 371 or 381; 60 credits. This course offers an analysis of the processes involved in planning and managing

leisure service delivery systems. Topics to be studied include principles of planning, organization, budgeting, and supervision.

AHSC 431 *Leisure Sciences Seminar*
(3 credits)

Prerequisite: AHSC 361, 371; HIST 215; PHIL 255; 60 credits. This is a third-year interdisciplinary seminar in which students can tie together all they have learned in the Leisure Studies program. Additionally, students are set on a course of study that should continue after they graduate so that they can keep up with future developments in this area.

AHSC 432 *Seminar in Therapeutic Recreation* (3 credits)

Prerequisite: AHSC 361, 381, 383, 384; HIST 215; PHIL 255; 60 credits. This is a third-year interdisciplinary seminar in which students can tie together all that they have learned in the Therapeutic Recreation program. Additionally, students are set on a course of study that should continue after they graduate so that they can keep up with future developments in this area.

AHSC 435 *Fieldwork Practice* (3 credits)

Prerequisite: AHSC 330. This course must be taken in final year. This course provides an opportunity for students to integrate theory into practice in the design, facilitation and evaluation of small group process. Students lead one small task or learning group in a community, an organizational or an institutional setting. The fieldwork is combined with class sessions for orientation, supervision, reflection and evaluation.

AHSC 437 *Internship in Leisure Sciences*
(6 credits)

Prerequisite: AHSC 241, 260, 361, 371, and permission of the Department. This course provides students with an opportunity to design, implement, and evaluate programs; to facilitate groups in a variety of settings; and to establish working relationships with field personnel. In consultation with their supervisors, students select a site related to their learning interests. Students learn to develop and manage their own project and to self-assess their work. The course includes fieldwork, seminars, and team meetings.

AHSC 438 *Internship in Therapeutic Recreation* (9 credits)

Prerequisite: AHSC 260, 281, 361, 381, 383, 384, and permission of the Department. This course provides students with an opportunity to design, implement, and evaluate programs, to facilitate groups in a variety of settings, and to establish working relationships with field personnel. In consultation with their supervisors, students select a site related to their learning interests. Students learn to develop and manage their own project and to self-assess their work. The course includes fieldwork, seminars, and team meetings.

AHSC 439 *Internship in Human Relations*
(6 credits)

Prerequisite: AHSC 230, 232, 330, 370; AHSC 423 and 425 or 443 and 445 previously or concurrently; permission of the Department. This course provides students with an opportunity to design, implement, and evaluate small group leadership in several settings, and to negotiate working relationships with site personnel. Students will be solely responsible for facilitating several task or learning groups in community, work, or educational settings. The sites will be selected according to students' learning interests and in consultation with the course instructor. The course includes supervisory team meetings and internship seminar sessions.

AHSC 443 *Community Development I*
(3 credits)

Prerequisite: AHSC 230, 232, 270, 330. This course examines the field of community development through the presentation of basic models. The examination of these models in historical and environmental contexts focuses on understanding how they reflect different views of social relationships. Students explore different approaches to working with communities and the implications for practice. They also examine ways of analysing and defining community resources, problems, and issues.

NOTE: Students who have received credit for APSS 440 or AHSC 440 may not take this course for credit.

AHSC 444 *The Older Adult and Leisure*
(3 credits)

Prerequisite: AHSC 232 or 361. This course examines the aging process in the physical, cognitive, and affective domains. It familiarizes the student with the characteristics of the aging population as related to leisure, recreation, and lifestyle. It focuses on developing and understanding the impact of lifelong leisure in the aging process. The course reviews issues related to the phenomenon of leisure in retirement and discusses the process of delivering leisure services to older individuals.

AHSC 445 *Community Development II*
(3 credits)

Prerequisite: AHSC 443. This course focuses on how to intervene in community contexts; identify community structures and inter-group dynamics relevant to intervention planning; gather and organize data for use by communities; develop intervention plans that involve the community each step of the way and that foster leadership within its ranks; and evaluate an intervention. Attention is given to cultural diversity and value differences.

NOTE: Students who have received credit for APSS 440 or AHSC 440 may not take this course for credit.

AHSC 450 *Leisure Assessment and Counselling* (3 credits)

Prerequisite: AHSC 281, 350; 60 credits. This

course focuses on the use of assessment applied to individual leisure abilities, interests and needs, and the application of counselling theory to the field of leisure services. A variety of assessment tools are analysed/interpreted. Theories, models, and methods of leisure counselling are discussed.

AHSC 456 *Advanced Family Life Education* (3 credits)

Prerequisite: AHSC 355. This course covers advanced professional skills of family life education with a focus on ethics, professionalism, and certification. Topics include group dynamics, communication skills, and effective leadership. There is a required fieldwork component to include one hour per week of observation in a family life education setting.

AHSC 460 *Health Promotion* (6 credits)

Prerequisite: AHSC 232 or 361. This course helps students to develop intervention skills and theoretical understanding in the area of health promotion. It is of particular interest to students whose career interests involve lifestyle planning, health promotion, and stress management. Topics include health and wellness, stress and illness, psychological and physical self-appraisal processes, psychosomatic processes and disorders, understanding addictions and their management, health-promotion interventions, behavioural self-management, and issues in medical/psychological health compliance.

AHSC 465 *Parent-Child Relations* (3 credits)

Prerequisite: AHSC 232, 313. This course provides an advanced understanding of parenting theories, research, and applications in the context of parent-child relations over the life span. Topics include parenting rights and responsibilities, parenting practices and programs, high-risk parenting, and parental assessment.

NOTE: Students who have received credit for this topic under an AHSC 498 number may not take this course for credit.

AHSC 470 *Basic Human Relations Laboratory* (3 credits)

Prerequisite: Final year and permission of the Department. This is an intensive format six-day learning session through which students may expect to increase their awareness of how their behaviour affects others, increase their skill and understanding of effectively and responsibly communicating to and exchanging feedback with others, increase their understanding of leadership and authority relations, and deepen their understanding of group dynamics.

AHSC 480 *Internship in Family Relations* (6 credits)

Prerequisite: Sixty credits and permission of the Department. This 360-hour internship must be completed over two terms and involves a supervised placement implementing family life education programs in a wide range of settings such as community organizations, education, and health care. Students are responsible for developing, implementing, and evaluating a number of lesson plans and programs, and are supervised and evaluated by an on-site field supervisor.

AHSC 485 *Internship in Youth Work* (6 credits)

Prerequisite: Sixty credits and permission of the Department. This 360-hour internship must be completed over two terms and involves a supervised placement in a child and youth care or youth protection setting. Students are responsible for developing, implementing, and evaluating a minimum number of intervention plans, and are supervised and evaluated by an on-site field supervisor.

NOTE: Students who have received credit for this topic under an AHSC 499 number may not take this course for credit.

AHSC 490 *Independent Study I* (3 credits)

Prerequisite: Permission of the Department. Students work on topics in consultation with a study supervisor. The study may include readings, field studies, and/or research.

AHSC 491 *Independent Study II* (3 credits)

Prerequisite: Permission of the Department. A student who has received credit for AHSC 490 may register for AHSC 491.

AHSC 498 *Advanced Topics in Applied Human Sciences* (3 credits)

AHSC 499 *Advanced Topics in Applied Human Sciences* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.030

BIOLOGY

Faculty	Chair JAMES GRANT, <i>Professor</i>	EMMA DESPLAND PATRICK J. GULICK BHUPINDER MANGAT VLADIMIR TITORENKO PAUL WIDDEN WILLIAM ZERGES								
	Professors PAUL J. ALBERT MURIEL B. HERRINGTON DONAL HICKEY J. DANIEL McLAUGHLIN ELAINE B. NEWMAN ROBERT M. ROY REGINALD K. STORMS ADRIAN TSANG LUC VARIN	Assistant Professors CATHERINE BACHEWICH IAN FERGUSON VINCENT MARTIN MICHAEL SACHER ROBERT WELADJI								
	Associate Professors GRANT BROWN SELVADURAI DAYANANDAN	Distinguished Professor Emeritus RAGAI K. IBRAHIM								
Location	Loyola Campus Richard J. Renaud Science Complex 514-848-2424 ext. 3400									
Department Objectives	<p>The Biology Department is dedicated to teaching and research that advance understanding of life from molecules and cells to organisms, populations, and entire ecosystems. The Department's programs inspire students with an appreciation of the rich diversity of the living world.</p> <p>Students acquire a comprehensive grounding in modern biology through classroom study as well as extensive hands-on training in research methodology. A variety of specialized laboratories and equipment supports both research and teaching activities.</p>									
Programs	<p><i>The Biology Department offers Honours and Specialization programs in Biology, Cell and Molecular Biology, and Ecology, as well as Major and Minor programs in Biology. Students planning a career or graduate studies in the biological sciences are normally expected to follow the appropriate Honours or Specialization program. The Major program is designed for students who wish to concentrate their studies in biology but at the same time wish to pursue general education in other disciplines. The Major program can be combined with a Major in another department.</i></p> <p><i>Students registered in the Honours, Specialization, or Major in Biology may select Biology electives in various subject areas in order to obtain a broad overview of the discipline. However, it is possible for students to pursue in-depth studies in specific areas such as animal biology, plant biology, or microbiology and biotechnology.</i></p> <p><i>The Minor program can only be taken by students registered in another degree program and provides an opportunity to gain a basic exposure to the main sub-disciplines of Biology or to pursue one such area in some depth.</i></p> <p><i>Students are strongly encouraged to take advantage of academic counselling services available in the Biology Department in order to select the program and courses that best meet their needs. Students may transfer among programs after the first year of study since the core courses in all programs are quite similar.</i></p>									
<p><i>Students are responsible for satisfying their particular degree requirements.</i></p> <p><i>The superscript indicates credit value.</i></p> <p><i>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.</i></p>										
<table><tr><td>72</td><td>BSc Honours in Biology</td><td>3</td><td>Chosen from BIOL 322^{3****}; CHEM 212³</td></tr><tr><td>33</td><td>CHEM 221^{3*}, 222^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³, 490⁶</td><td>9</td><td>Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³</td></tr></table>			72	BSc Honours in Biology	3	Chosen from BIOL 322 ^{3****} ; CHEM 212 ³	33	CHEM 221 ^{3*} , 222 ^{3*} , 271 ³ ; BIOL 225 ³ , 226 ³ , 227 ³ , 261 ³ , 266 ³ , 367 ³ , 490 ⁶	9	Chosen from BIOL 330 ³ , 337 ³ , 340 ³ , 364 ³ , 371 ³ , 382 ³ , 385 ³
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33	CHEM 221 ^{3*} , 222 ^{3*} , 271 ³ ; BIOL 225 ³ , 226 ³ , 227 ³ , 261 ³ , 266 ³ , 367 ³ , 490 ⁶	9	Chosen from BIOL 330 ³ , 337 ³ , 340 ³ , 364 ³ , 371 ³ , 382 ³ , 385 ³							

- 27 Additional Biology credits** of which a minimum of nine credits in 400-level Biology courses must be completed
- 72 BSc Honours in Cell and Molecular Biology**
- 51 CHEM 212³, 221^{3*}, 222^{3*}, 271³, 375³, 477³; BIOL 225³, 226³, 261³, 266³, 364³, 366³, 367³, 368³, 466³, 490⁶
- 21 Biology or Chemistry/Biochemistry elective credits*** with at least 12 credits at the 400 level
- 72 BSc Honours in Ecology**
- 36 CHEM 221^{3*}, 222^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³, 450³, 490⁶
- 3 Chosen from BIOL 322^{3****} or equivalent
- 9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³
- 12 Chosen from BIOL 321³, 350³, 351³, 353³, 354³
- 6 Chosen from BIOL 451³, 453³, 457³, 459³
- 6 Biology elective credits** at the 300 or 400 level
- 60 BSc Specialization in Biology**
- 27 CHEM 221^{3*}, 222^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³
- 3 Chosen from BIOL 322^{3****}; CHEM 212³
- 9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³
- 21 Additional Biology credits** of which a minimum of six credits in 400-level Biology courses must be completed
- 66 BSc Specialization in Cell and Molecular Biology**
- 45 CHEM 212³, 221^{3*}, 222^{3*}, 271³, 375³, 477³; BIOL 225³, 226³, 261³, 266³, 364³, 366³, 367³, 368³, 466³
- 21 Biology or Chemistry/Biochemistry elective credits*** with at least 12 credits at the 400 level
- 60 BSc Specialization in Ecology**
- 27 CHEM 221^{3*}, 222^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³
- 3 Chosen from BIOL 322^{3****} or equivalent
- 9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³
- 9 Chosen from BIOL 321³, 350³, 351³, 353³, 354³
- 6 Chosen from BIOL 450³, 451³, 453³, 457³, 459³
- 6 Biology elective credits** at the 300 or 400 level
- 45 BSc Major in Biology**
- 27 CHEM 221^{3*}, 222^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³
- 3 Chosen from BIOL 322^{3****}; CHEM 212³
- 6 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³
- 9 Additional Biology credits** of which a minimum of three credits in 400-level Biology courses must be completed
- 24 Minor in Biology**
- 12 Chosen from BIOL 206³ or 261³; 225³, 226³, 227³
- 12 Biology elective credits

*Students entering the program with Cegep Organic Chemistry must replace these credits with an equivalent number of credits in Biology or Chemistry/Biochemistry.

**Intermediate Topics in Biology (BIOL 398) and Advanced Topics in Biology (BIOL 498) may be taken as elective courses where the special topic is appropriate.

***Advanced Topics in Biology (BIOL 498) and Advanced Topics in Chemistry (CHEM 498) may be taken as elective courses where the special topic is appropriate.

****See §200.7.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

BIOL 200 *Fundamentals of Human Biology* (3 credits)

A series of lectures, demonstrations, and seminars to provide non-biologists with a general survey of the fundamental principles of life, with special emphasis on the structures and functions of human beings. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit. Students who have completed Cegep Biology 921/931 may not take this course for credit.

BIOL 201 *Introductory Biology* (3 credits)

Fundamentals of plant and animal biology: basic physics and chemistry of life; cell and tissue structures and functions; anatomy and physiology

of human systems; survey of plant and animal taxonomy, ecology, heredity, and evolution. Lectures and laboratory.

NOTE: Students with Cegep Biology 301 or equivalent may not take this course for credit. Students entering BIOL programs without Cegep Biology 301 or equivalent must take this course, but not for program credit.

BIOL 202 *General Biology* (3 credits)

This course presents the fundamentals of biology including the basic physics and chemistry of life, the structure and functions of cell and tissues, and aspects of anatomy, physiology, taxonomy, heredity and evolution, with examples ranging from microorganisms to humans. Lectures only.

NOTE: Students with Cegep Biology 301,

101-NYA, BIOL 201 or BIOL 298A may not take this course for credit. Students enrolled in BSc programs may not take this course for credit.

BIOL 203 *Fundamental Nutrition*
(3 credits)

This course deals with food composition (carbohydrates, lipids, proteins, vitamins, and minerals), its absorption and utilization, energy balance, special diets, and food technology. Lectures only.
NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit.

BIOL 206 *Elementary Genetics* (3 credits)

A survey of classical and contemporary developments in the study of heredity, with particular attention to human examples. This course is open to the general student body. Lectures only.
NOTE: Students may not take this course for credit with BIOL 261.

BIOL 207 *Microorganisms and Humanity*
(3 credits)

This course examines the intimate relationships that exist between humans and microorganisms, including the impact of bacteria and viruses on human health, the use of fungi and bacteria in food production and biotechnology, and the roles that all microbes play in global ecosystems. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit.

NOTE: Students who have received credit for BIOZ 207 may not take this course for credit.

BIOL 208 *Environmental Biology*
(3 credits)

This course examines the principles and concepts of ecosystems, the interaction of organisms and their environment. Energy flow and nutrient cycling in ecosystems, population dynamics, and community organization. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit.

NOTE: Students who have received credit for BIOZ 208 may not take this course for credit.

BIOL 210 *Genetics and Human Welfare*
(3 credits)

A course on the principles of heredity as understood by modern biology. It deals also with the application of genetic principles to organisms, including humans. The biological basis of social problems is dealt with at some length. Organic evolution and its implications for human life and welfare are considered. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit; may not be taken for credit with BIOL 206.

NOTE: Students who have received credit for BIOZ 210 may not take this course for credit.

BIOL 225 *Form and Function of Organisms* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201. An introduction to plant and animal form and function is presented. This course provides an overview of basic physiological and morphological aspects of plants and animals that allow survival and reproduction. Topics in animal biology include animal architecture, internal fluids, homeostasis, digestion and nutrition, nervous and chemical coordination; topics in plant biology include plant organization, photosynthesis, respiration, water relations, and growth regulation. Reproduction and development of both plants and animals are introduced. Lectures only.

NOTE: Students who have received credit for BIOL 230 and 240 may not take this course for credit.

BIOL 226 *Biodiversity and Ecology*
(3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201. This course introduces the evolution, biodiversity, and ecology of organisms. The origin and diversity of life, from prokaryotes, through simple eukaryotes to multi-cellular organisms are introduced. Natural selection, speciation, and phylogeny, stressing evolutionary relationships in conjunction with changing conditions on earth, are presented. The course introduces major concepts in ecology: the physical and chemical environment, population structure, life histories, species interactions, communities, and ecosystems. Lectures only.

NOTE: Students who have received credit for BIOL 250 and 270 may not take this course for credit.

BIOL 227 *Laboratory Studies in Biodiversity* (3 credits)

Prerequisite: BIOL 225; BIOL 226 previously or concurrently. Laboratory exercises are designed to acquaint students with biodiversity and to introduce methodologies common to studies of organisms and populations. This course includes field trips, dissections, use of taxonomic keys, and basic exercises in physiological function. Use of the microscope, variability within populations, basic techniques in microbiology, and elementary population dynamics are presented. Tutorials include videotapes of plant and animal diversity, history, and behaviour. Laboratory and tutorial.

BIOL 261 *Molecular and General Genetics* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201; CHEM 221 previously or concurrently. Basic genetic principles, including mechanisms of meiosis and mitosis, Mendelian genetics, recombination, gene mapping, and chromosome rearrangements; an introduction to molecular genetics, including nucleic acid structure and biosynthesis transcription and translation; the

course also includes an introduction to recombinant DNA technology and to concepts of population genetics. Lectures and tutorials.

BIOL 266 *Cell Biology* (3 credits)
Prerequisite: BIOL 261; CHEM 271 previously or concurrently. Structure and functions of the cell and its organelles: cytoskeleton, chromosomes, cell cycle and cell division, organelle biogenesis, cell differentiation, including the immune system and cell communication. Lectures only.
NOTE: Students who have received credit for BIOL 365 or this topic under a BIOL 298 number may not take this course for credit.

BIOL 298 *Selected Topics in Biology* (3 credits)
Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

BIOL 321 *Evolution* (3 credits)
Prerequisite: BIOL 225, 226. Through readings, discussions, and lectures, students explore the evidence for evolution, as well as current theories for the mechanisms that cause evolutionary change. Topics covered include principles of inheritance, the origin of genetic variation, adaptation through natural selection, random processes in evolution, the origin of species, and the role of macroevolutionary processes in shaping current patterns of biodiversity. Lectures and tutorials.
NOTE: Students who have received credit for BIOL 359 may not take this course for credit.

BIOL 322 *Biostatistics* (3 credits)
Prerequisite: Nine BIOL credits in a Biology Major, Honours, or Specialization program or completion of Stage I of the Geography Honours or Specialization programs in Environmental Science or permission of the Department. Statistical methods for the biological sciences; sampling; experimental design; data description; elementary probability; binomial, Poisson and Normal distributions; statistical inference; hypothesis testing; chi-square; analysis of variance; correlation; regression; covariance analysis; and analogous non-parametric techniques. Lectures and laboratory.
NOTE See \$200.7

BIOL 330 *Vertebrate Biology* (3 credits)
Prerequisite: BIOL 225, 226. This course surveys the biology of vertebrates. Topics include the evolution of the major groups and a comparative analysis of the form (anatomy), function (physiology), and life history of vertebrates. Examples from the local fauna are emphasized. Lectures and laboratories.
NOTE: Students who have received credit for BIOL 387 may not take this course for credit.

BIOL 335 *Introductory Histology* (3 credits)
Prerequisite: BIOL 225. A comparative study

of the microscopic characteristics of cells, tissues, and organs of vertebrates. Lectures and laboratory.

BIOL 337 *Invertebrate Biology* (3 credits)
Prerequisite: BIOL 225, 226, 227. This course surveys the diversity of invertebrates and their functional systems, emphasizing the basic themes that define each phylum and those that are common to all animals. The course focuses on evolution, life histories, physiology, and anatomy of the major phyla and the diversity of the minor phyla. Lectures and laboratory.
NOTE: Students who have received credit for this topic under a BIOL 398 number may not take this course for credit.

BIOL 340 *Plant Biology* (3 credits)
Prerequisite: BIOL 225, 226. This course surveys the biology of the plant kingdom. Topics include the evolution of the major groups and a comparative analysis of the form (anatomy), function (physiology), and life history of plants. Examples from the local flora are emphasized. Lectures and laboratory.

BIOL 341 *Physiology of Plant Development* (3 credits)
Prerequisite: BIOL 225, 226, 227 previously or concurrently. Physiological and biochemical aspects of plant growth and development. Plant responses to growth regulators, their mode of action and their use in plant tissue culture. The role of light and temperature in seed germination, dormancy, and flowering. Lectures only.
NOTE: Students who have received credit for BIOL 346 may not take this course for credit.

BIOL 350 *The Ecology of Individuals* (3 credits)
Prerequisite: BIOL 225, 226. This course is designed to introduce students to the diversity of adaptations possessed by individuals which enables them to interact successfully with the abiotic and biotic environment. Major topics include adaptive responses to temperature, water, light, and other species. Physiological adaptations are emphasized. Lectures only.
NOTE: Students who have received credit for BIOL 398A (Intermediate Concepts in Ecology) may not take this course for credit.

BIOL 351 *Basic Population Ecology* (3 credits)
Prerequisite: BIOL 226. This course introduces the processes which determine the distribution and abundance of individuals in populations. Population growth, density-dependent and density-independent population regulation, survivorship, life history parameters, the population dynamics of competition, predation and parasitism, and the roles of predation and competition in affecting community structure are discussed. Lectures and tutorials.
NOTE: Students who have received credit for BIOL 454 may not take this course for credit.

BIOL 353 *Communities and Ecosystems*
(3 credits)

Prerequisite: BIOL 225, 226; BIOL 227 previously or concurrently. This course presents an introduction to biological communities, the processes that maintain them and their emergent properties. Topics include the interactions between abiotic and biotic factors in determining community composition, the concepts of niche and habitat, succession theory, community diversity and stability, energy flow and nutrient cycling. Examples emphasize both aquatic and terrestrial ecosystems, and the major global biomes. Lectures only.

BIOL 354 *Behavioural Ecology* (3 credits)

Prerequisite: BIOL 226. Behavioural ecology is the study of behavioural adaptation. The topics include foraging, anti-predator, fighting, mating, reproductive and social behaviour. Students will be introduced to optimality and game theories. Lectures and tutorials.

NOTE: Students who have received credit for BIOL 358 or 453 may not take this course for credit.

BIOL 364 *Cell Physiology* (3 credits)

Prerequisite: BIOL 266; CHEM 271. This course covers general and specialized processes at the cellular level in eukaryotes and prokaryotes; protein folding and degradation, signalling by nerves, bioenergetics (respiration and photosynthesis), cell motility, muscle contraction, eukaryotic cilia and flagella, sensory perception, and immunology. Lectures only.

BIOL 366 *Mechanisms of Development*
(3 credits)

Prerequisite: BIOL 261, 266. This course deals with the mechanisms of cellular interaction and genetic control which govern animal development and cell differentiation. This includes how cell movement and cell recognition take place, how the genome is restricted in differentiation, how cytoplasmic signals influence differentiation, how gradients affect development, how genes control segmentation, and how oncogenes, growth factors, and hormones influence development. The role of genetic engineering in the understanding of developmental processes is discussed. Lectures only.

NOTE: Students who have received credit for BIOL 463 may not take this course for credit.

BIOL 367 *Molecular Biology* (3 credits)

Prerequisite: BIOL 261; CHEM 271. DNA structure, recombination, gene structure, gene expression, and its regulation. The experimental evidence that supports these concepts is also discussed. Lectures and tutorials.

NOTE: Students who have received credit for this topic under a BIOL 398 number may not take this course for credit.

BIOL 368 *Genetics and Cell Biology*
Laboratory (3 credits)

Prerequisite: BIOL 261, 266; CHEM 212 or 217

or BIOL 227. This course introduces students to the basic laboratory techniques of genetics, molecular biology, and cell biology. Experiments include identification, characterization, and genetic mapping of bacterial mutants, isolation of bacterial DNA and its use for transformation. Primary cultures of mammalian lymphocytes are studied with respect to proliferation using an ELISA technique. Physiological studies include cell membrane functions in red blood cells, active and facilitated transport in bacteria, oxygen evolution and ATP synthesis in chloroplasts, ATP synthesis and electron transport in mitochondria and nerve action potentials. Laboratory and tutorials.

BIOL 371 *Microbiology* (3 credits)

Prerequisite: Six credits chosen from BIOL 226, 261, CHEM 271; or permission of the Department. This course provides an in-depth study of the structure and function of microbes. It emphasizes the genetic and biochemical characteristics of microbes which distinguish them from plants and animals. Consideration is also given to the impact of microbes on the global environment and on the quality of human life. Lectures only.

NOTE: Students who have received credit for BIOL 370 may not take this course for credit.

BIOL 380 *Nutrition* (3 credits)

Prerequisite: CHEM 221, 222; CHEM 271 recommended. The concept of a balanced diet is studied in relation to caloric content and to protein, lipid, carbohydrate, vitamin, and mineral requirements. The consequences of dietary deficiencies are examined. Special topics such as dieting, organic foods, megavitamins, food additives, and toxins are discussed. Lectures only.

BIOL 381 *Environmental Toxicology*
(3 credits)

Prerequisite: BIOL 225, 226. The purpose of this course is to study the impact of pollution on ecosystems. The major classes of pollutants are considered in relation to their nature, origin, and distribution, and particularly their mode of action on individual organisms and ecosystems. Air, water, and soil are examined with their respective pollutants and a major emphasis is given to quantitative assessments of various agents and their effects. The course also includes theoretical and practical aspects of bio-assays, and an overview of case studies and of control measures. Lectures only.

BIOL 382 *Comparative Animal*
Physiology (3 credits)

Prerequisite: BIOL 225, 226. This course offers a broad comparative analysis of how the major groups of animals cope with life in differing environments. Topics include respiration and circulation, nutrition and energy metabolism, temperature regulation, osmotic regulation and excretion, and movement and sensory integration. Lectures and laboratory.

NOTE: Students who have received credit for BIOL 383 may not take this course for credit.

BIOL 385 *Entomology* (3 credits)
Prerequisite: BIOL 225; BIOL 226 previously or concurrently, BIOL 227 recommended. This course introduces the student to the variety and complexity of insect life. Basic classification is followed by a more detailed study of morphology and anatomy, together with some physiological considerations. Other topics such as adaptations for aquatic life and social behaviour are discussed. Laboratories include the identification of insects collected by students, as well as structured laboratory sessions which complement the lectures. Lectures and laboratory.
NOTE: Students who have received credit for BIOL 232 may not take this course for credit.

BIOL 386 *Insect Behaviour and Physiology* (3 credits)
Prerequisite: BIOL 225, 226. This course deals with insect physiology and behaviour. It emphasizes the relationships between structure and function of various insect parts. The lecture topics will include the following: introduction to insect behaviour, vision, gustation, olfaction, pheromones, hormones, light production, sound production and perception, social behaviour, diapause, migration, insect control, and co-evolution of insects and plants. Lectures only.
NOTE: Students who have received credit for BIOL 398D may not take this course for credit.

BIOL 398 *Intermediate Topics in Biology* (3 credits)
Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

BIOL 433 *Parasitology* (3 credits)
Prerequisite: BIOL 225, 226, 227; 337 recommended. This course surveys the protozoan and worm parasites that infect humans, livestock, and wildlife. Morphology and pathology are discussed and host-parasite relations, ecology, and transmission are emphasized. Early laboratory exercises are designed to acquaint students with proper collection, preservation, and processing of specimens, and this material is used to explore parasite populations on a continuing basis throughout the course. The remainder of the laboratory sessions focuses on the specific groups of parasites with emphasis on morphology, diagnosis, and life-cycle stages and patterns. Lectures and laboratory.
NOTE: Students who have received credit for BIOL 332 may not take this course for credit.

BIOL 435 *Advanced Histology* (3 credits)
Prerequisite: BIOL 335. An advanced comparative study of the vertebrate organ systems at the ultrastructural and histological level. Lectures and laboratory.
NOTE: Students who have received credit for BIOL 336 may not take this course for credit.

BIOL 443 *Plant Molecular Genetics* (3 credits)
Prerequisite: BIOL 367. This course analyses

plant genome structure, mRNA population complexity, gene-cloning strategies, gene transfer in plants, gene regulation, and a survey of topics such as signal transduction, plant disease resistance, herbicide resistance, metabolic engineering, and environmental stress resistance. Innovative applications of molecular analysis and genetic engineering in plants have had a dramatic impact on our basic understanding of plant growth and development, on genetic improvements of commercial varieties of crop plants, and on novel applications such as the production of pharmaceutical compounds, plastics and mammalian antibodies in plants. Lectures only.
NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 449 *Physiology and Metabolism of Flowering Plants* (3 credits)
Prerequisite: A minimum of three credits chosen from BIOL 341, 350, 353, 367. This course deals with the physiological and biochemical processes of flowering plants, blending modern molecular approaches with traditional physiological and biochemical methods and environmental physiology to understand how plants work. Topics include the role of water and minerals in the normal development of plants, how carbon is fixed during photosynthesis, the utilization and metabolism of photosynthetic products, and the assimilation of nitrogen and sulphur. These processes are discussed in relation to the environmental factors which govern them. Lectures only.
NOTE: Students who have received credit for BIOL 349 may not take this course for credit.

BIOL 450 *Techniques in Ecology* (3 credits)
Prerequisite: BIOL 227, 322 or equivalent, and a minimum of six credits from BIOL 321, 350, 351, 353, 354. This course introduces students to a variety of techniques of experimental design, data collection, and quantitative analysis. Students participate in a series of modules, each of which presents experimental and analytical techniques appropriate for one area of modern research in ecology, behaviour, or evolution. Some modules require students to collect and subsequently analyse original data from field or laboratory settings. Modules and their contents may vary from year to year. Tutorials and laboratory.

BIOL 451 *Plant Field Ecology* (3 credits)
Prerequisite: BIOL 322 or equivalent, BIOL 353. This course is designed to give students practical experience working with plant communities. It is offered at a field station during the last two weeks of August, and residence is mandatory. Students learn to identify plant species occurring in field, forest, and mountain communities, with the aim of describing and understanding plant community patterns. Methods of sampling and statistical analysis of population and community data are discussed and applied. The course is a combination of formal lectures, organized field studies,

and informal discussions. Students are required to hand in a series of written reports and a plant collection after the course has ended.

BIOL 452 *Population and Conservation Genetics* (3 credits)

Prerequisite: BIOL 261; three credits chosen from BIOL 321, 351, 353, 367. Conservation genetics employ the principles of population genetics and systematics to address problems related to conservation of biodiversity. This course examines the main factors that affect genetic variation within and among populations, including natural selection, random genetic drift, mutation and gene flow. The impact of human activities on levels and patterns of genetic variation in both plant and animal communities is discussed. The utility of molecular markers in determining conservation units is examined. Several case studies from the current literature are used to illustrate the many applications of modern molecular techniques in conservation genetics. The course comprises lectures, student presentations, and use of software in genetic data analysis.

BIOL 453 *Microbial Ecology* (3 credits)

Prerequisite: BIOL 353. This course examines the role of the microbial community in the fundamental processes of decomposition and nutrient cycling. We discuss the role of microbes in the breakdown of organic molecules and the release and transformation of mineral elements. Emphasis is placed on the interactions between bacteria, fungi, and the microfauna in decomposition and on the role of interactions between plants and microbes in the maintenance of nutrient cycles. Lectures only.

NOTE: Students who have received credit for BIOL 356 or 458 may not take this course for credit.

BIOL 457 *Applied Ecology and Conservation Biology* (3 credits)

Prerequisite: A minimum of nine credits chosen from BIOL 321, 350, 351, 353, 354. This course applies principles of ecology at the individual, population, community and ecosystem level to identify and solve practical environmental problems. Topics include pollution, climate change, farming, harvesting renewable resources, designing nature reserves and conserving biodiversity. Lectures and tutorials.

BIOL 459 *Aquatic Ecology* (3 credits)

Prerequisite: BIOL 322 or equivalent, BIOL 353. This course introduces the student to aquatic ecosystems. The first half of the course concentrates on the biological basis of primary and secondary productivity. The second half of the course explores the ecology of fishes at the individual, population, community, and ecosystem levels of analysis. Lectures, field trips, and laboratory. *NOTE: Students who have received credit for BIOL 355 or 431 may not take this course for credit.*

BIOL 460 *Microbial Genetics* (3 credits)

Prerequisite: BIOL 367. Basic microbial and molecular genetics, including isolation and characterization of mutants, methods of mapping mutants, transposons, episomes, and recombinant DNA techniques. Lectures only.

BIOL 461 *Advanced Genetics* (3 credits)

Prerequisite: BIOL 367. Directed readings and seminars in classical and contemporary genetics designed to expose the student to research literature and problems. Students probe in greater depth areas of particular interest in order to develop a critical sense and deepen an understanding of past and current work in this field. Seminars only.

BIOL 462 *Immunology* (3 credits)

Prerequisite: BIOL 266, 367. The role of the immune system in maintenance of body homeostasis will be presented with particular reference to cells and tissues of the immune system, their organization as well as their structural and functional relationships. Topics include: maturation and differentiation of B and T lymphocytes; structure and properties of antibodies; immune responses to antigens; genetic aspects of antibody synthesis; immunological considerations in AIDS, cancer, and autoimmune diseases. Lectures and seminars.

BIOL 463 *Comparative Genomics and Genome Evolution* (3 credits)

Prerequisite: BIOL 367. This course covers modern comparative genomics including the nature and scope of the various genome projects, gene discovery and data mining, molecular phylogenies, origin of the eukaryotic cell, evolution of gene regulatory networks, concerted evolution, and haplotype mapping. Lectures and seminars.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 464 *Advanced Cell Biology* (3 credits)

Prerequisite: BIOL 266, 367. Lectures dealing with selected topics in mammalian cell biology. These include introduction to the elements of cell culture with reference to the growth and function of non-differentiated and differentiated cells, control of cell cycling under normal and abnormal states, mechanisms of peptide and steroid hormone action with emphasis on intracellular signalling pathways, the control of gene transcription and detailed analysis of the effect of host cell factors on virus replication. Lectures only.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 465 *Biological Regulatory Mechanisms* (3 credits)

Prerequisite: BIOL 261; CHEM 271; or permission of the Department. The molecular basis of the control of metabolic pathways, with an emphasis on prokaryotic systems. The course concentrates

on the analysis of the rationale of experimentation used to elucidate these regulatory mechanisms. Lectures and conferences.

BIOL 466 *Advanced Laboratory in Molecular Biology* (3 credits)

Prerequisite: BIOL 367, 368. Theory and practice of modern experimental procedures of molecular biology, including use of restriction enzymes, gene cloning, hybridizations, DNA sequencing, site-directed mutagenesis, and the use of bacteria and phage in biotechnology. Laboratory and tutorials.

NOTE: Students who have received credit for CHEM 479 may not take this course for credit.

BIOL 468 *Gene Structure* (3 credits)

Prerequisite: BIOL 367. This course deals with gene regulation in eukaryotes. Topics covered include transcription, transcript processing, translation, and post-translational processes. Lectures only.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 469 *DNA Repair* (3 credits)

Prerequisite: BIOL 367. This course deals with the chemical alterations arising spontaneously in DNA during semi-conservative replication and as a result of exposure to ionizing radiation, ultraviolet radiation, and genotoxic chemicals. The repair of DNA damage by various enzymatic processes in both prokaryotic and eukaryotic cells is discussed. Lectures only.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 470 *Microbial Physiology* (3 credits)

Prerequisite: BIOL 225, 226; CHEM 271. Comparative biochemistry of prokaryotes — a study of the biochemical activities underlying the life of micro-organisms. A description of the diverse biochemical adaptations used by micro-organisms to obtain energy and building materials from their various environments. Lectures and tutorials.

BIOL 471 *Mechanism of Protein Synthesis* (3 credits)

Prerequisite: BIOL 367. Cells synthesize many different proteins containing different sequences of amino acids. Synthesis of proteins is carried out by ribosomes (composed of proteins and RNA) and a variety of protein and RNA molecules that interact with the ribosome. The translation of the nucleotide sequence of a messenger RNA into the amino acid sequence of a protein involves over one hundred different proteins and RNA molecules. This course discusses current research on protein synthesis. Specific topics include the structure and function of ribosome and the other proteins and RNAs involved in translation, quality control in protein synthesis (translational accuracy), and the mechanisms of various types of programmed "errors" in translation. Lectures only.

NOTE: Students who have received credit for BIOL 498V may not take this course for credit.

BIOL 490 *Independent Study* (6 credits)

Prerequisite: Sixty (60) credits in an Honours or Specialization program in Biology, and permission of the Department. In this course, the student undertakes a special research project selected in consultation with, and conducted under, the supervision of a faculty member of the Department. The project is intended to develop the student's knowledge of standard scientific procedures, including methods of researching scientific literature, the planning and execution of experimental and analytical procedures, the writing of a formal report, and the presentation of a seminar on the project.

NOTE: Students may register in September or January for this course, but work must continue over two consecutive semesters.

BIOL 498 *Advanced Topics in Biology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.050

CHEMISTRY AND BIOCHEMISTRY

Faculty	<div> <p><i>Chair</i> JOANNE TURNBULL, Associate Professor</p> <p><i>Professors</i> PETER H. BIRD JOHN A. CAPOBIANCO ANN M. ENGLISH MARCUS F. LAWRENCE RAYMOND LE VAN MAO</p> <p><i>Associate Professors</i> LOUIS CUCCIA GEORGE DENES CHRISTINE DEWOLF YVES GÉLINAS PAUL JOYCE</p> </div> <div> <p>HEIDI M. MUCHALL GILLES H. PESLHERBE JUSTIN B. POWLOWSKI CAMERON SKINNER</p> <p><i>Assistant Professors</i> GUILLAUME LAMOUREUX XAVIER OTTENWAELEDER PETER PAWELEK SÉBASTIEN ROBIDOUX CERRIE ROGERS CHRISTOPHER WILDS</p> <p><i>Distinguished Professors Emeriti</i> MARK DOUGHTY OSWALD S. TEE</p> </div>
Location	<p><i>Loyola Campus</i> Richard J. Renaud Science Complex, Room: SP 201.01 514-848-2424 ext. 3366</p>
Department Objectives	<p>Chemistry is the science that examines the structure of substances and the reactions to produce novel and useful products. Biochemistry is that part of chemistry which deals with chemical changes occurring in biologically relevant systems; i.e. changes taking place in living cells that are responsible for life processes.</p> <p>The mission of the Department is fourfold: (i) excellence in teaching and research in the fields of chemistry and biochemistry; (ii) develop and maintain strong undergraduate and graduate teaching programs; (iii) develop and maintain state-of-the-art quality research; and (iv) meet the high standards of the scientific and industrial communities. Our programs have strength in both the applied and the theoretical fields.</p>
Programs	<p><i>Students are responsible for satisfying their particular degree requirements.</i></p> <p><i>The Department helps students to ensure that they adhere to the academic code of conduct while taking the Department's courses. Attendance at a 45-minute seminar on academic integrity is required of all students registered in any department course. The seminar is offered several times near the beginning of each term.</i></p> <p><i>The Ordre des chimistes du Québec (OCQ) has fully accredited the curricula of i) Honours in Chemistry; ii) Honours in Biochemistry; iii) Specialization in Biochemistry; iv) Specialization in Chemistry. Upon satisfactory completion of any of the above-mentioned programs, a graduate is eligible for membership in the OCQ. A working knowledge of French is required.</i></p> <p><i>Students should note that CHEM 450 has a performance prerequisite and is essential for Honours programs. CHEM 419 has a performance prerequisite for the Specialization programs. Students who cannot meet these prerequisites will not be able to complete the programs but may complete a Major. For more details, students should consult with the Department.</i></p> <p><i>Courses that consist of both laboratories and lectures require that a satisfactory performance be obtained in each of the components for successful completion of the course.</i></p> <p><i>The superscript indicates credit value.</i></p> <div> <div> <p>45 Core Component for Chemistry CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³, 242³, 271³, 312³, 324³, 325³, 333³, 341³, 393³</p> <p><i>*For Cegep equivalents these courses must be replaced with an equivalent number of other Organic Chemistry credits.</i></p> </div> <div> <p>45 Core Component for Biochemistry BIOL 261³, 266³, 364³, 368³; CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³, 271³, 324³, 375³, 393³</p> <p><i>*For students entering with the Cegep equivalents, these credits must be replaced with an equivalent number of other Organic Chemistry credits (for</i></p> </div> </div>

students in the Specialization or Honours) or with an equivalent number of credits in Chemistry or related disciplines, as approved by the departmental advisor (for students in the Major).

BSc Honours in Chemistry

An Honours in Chemistry program consists of completion of the requirements of the Specialization in Chemistry with the election of CHEM 450⁶ as the senior research project.

NOTE: Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.

Students must meet the University regulations concerning the Honours degree. Honours students are encouraged to attend departmental seminars.

60 BSc Honours in Chemistry

- 45 Core component for Chemistry
- 3 CHEM 495³
- 6 CHEM 450⁶
- 6 Additional credits at the 400 level in Chemistry

72 BSc Honours in Biochemistry

- 45 Core component for Biochemistry
- 3 CHEM 477³ or BIOL 466³
- 18 CHEM 312³, 325³, 335³, 450⁶; BIOL 367³
- 6 Credits of 400-level courses in the Biochemistry area (CHEM 470³, 471³, 472³, 475³, 478³, 481³, and when appropriate, CHEM 498³); three credits may be replaced by a 400-level course in Chemistry or a 400-level course in Cell and Molecular Biology (BIOL 461³, 462³, 464³, 465³, 468³, 469³, 470³, and when appropriate, BIOL 498³).

NOTE: Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.

Students must meet the University regulations concerning the Honours degree. Honours students in second year and beyond are encouraged to attend departmental seminars.

60 BSc Specialization in Chemistry

- 45 Core component for Chemistry
- 3 CHEM 495³
- 6 CHEM 419⁶ or, with departmental permission, CHEM 450⁶
- 6 Additional credits at the 400 level in Chemistry

69 BSc Specialization in Biochemistry

- 45 Core component for Biochemistry
- 18 CHEM 312³, 325³, 335³, 477³; BIOL 367³, 466³
- 6 Credits of 400-level courses in the Biochemistry area (CHEM 470³, 471³, 472³, 475³, 478³, 481³, and when appropriate, CHEM 498³); three credits may be replaced by a 400-level course in Chemistry or by a 400-level course in Cell and Molecular Biology (BIOL 461³, 462³, 464³, 465³, 468³, 469³, 470³, and when appropriate, BIOL 498³).

45 BSc Major in Chemistry

- 45 Core component for Chemistry Substitution of courses from within the Core program by other courses in Chemistry or related disciplines (Mathematics, Physics, Biology, Geology) up to a maximum of nine credits, will be accepted, if previously approved by a departmental program advisor. It is expected that such substitutions will be in accord with the overall program of study being followed by the student.

45 BSc Major in Biochemistry

- 45 Core component for Biochemistry

24 Minor in Chemistry

- 24 Chosen from the Department's offerings, with due regard to prerequisites, such that the courses chosen form a coherent pattern which complements the student's other areas of study. The course pattern chosen must have been previously approved by a departmental program advisor.

Chemistry and Biochemistry Co-operative Program

Director

SEBASTIEN ROBIDOUX, *Senior Lecturer*

The Chemistry and Biochemistry Co-operative program is offered to students who are enrolled in the BSc Honours or Specialization in Chemistry and Biochemistry. Students interested in applying for the Chemistry and Biochemistry co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is identical to that of the regular program, but six study terms are interspersed with four work terms.

Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education, in order to continue their studies in the co-op format.

Liaison between the student, the employers and the Institute for Co-operative Education is provided by the Chemistry and Biochemistry co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

A student may be exempted from one or more of the introductory courses, on the basis of work done at the Cegep level. Where exemptions are given, replacement courses must be chosen with the approval of a department advisor. In the case of certain programs approved by the *Ordre des chimistes du Québec*, the courses must be replaced with an equivalent number of credits in the same sub-discipline as the exemptions.

Students who have successfully completed the Cegep equivalent for CHEM 205, 206, 221 and/or 222 should verify on their Concordia student record that they have received an exemption. Similarly, students who have successfully completed the equivalent course(s) at another university should verify on their Concordia student record that they have received credit or exemption as appropriate for this course. If not, they should see the departmental advisor.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

CHEM 205 General Chemistry I (3 credits)
Stoichiometry, states of matter, atomic structure, electron structure of atoms, the periodic table, periodic properties, bonding, solids. Lectures and laboratory.

NOTE: This course presumes a good grounding in secondary school mathematics. Students lacking such grounding or non-science students seeking only an awareness of chemistry are advised to enrol in CHEM 208³.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

CHEM 206 General Chemistry II (3 credits)
Prerequisite: CHEM 205. Thermochemistry, solutions and their properties, equilibrium, ionic equilibrium, pH, buffers, kinetics, reaction mechanisms, other selected topics related to biochemistry, biology, and engineering. Lectures and laboratory.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

CHEM 208 Chemistry in Our Lives (3 credits)

This course is designed as an introduction to chemistry for non-science students. It concentrates on establishing the chemical concepts and vocabulary necessary to understand the many roles chemistry plays in people's daily lives. Issues to be presented will range from design and testing of drugs to protection of the ozone layer. The chemical phenomena, methodology, and theory will be presented as needed to understand the various issues covered in the course. Lectures only.

NOTE: This course is not a prerequisite for any Chemistry course. This course may not be taken for credit by science students.

NOTE: Students who have received credit for CHEM 208 may not take this course for credit.

CHEM 209 Discovering Biotechnology (3 credits)

The course begins with an exploration of the roles of genes and proteins in life processes. It then proceeds to an examination of the basic scientific principles behind manipulation of

biological molecules to produce desired changes. Students are introduced to the specific applications of the technology to medicine, agriculture, and the environment. Economic and ethical issues raised by biotechnology are also examined.

NOTE: This course is intended for non-scientists, and may not be taken for credit by Biochemistry or Biology students.

NOTE: Students who have received credit for CHEM 209 may not take this course for credit.

CHEM 212 Analytical Chemistry for Biologists (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 205; or equivalents for **all** prerequisite courses. This course introduces the basic concepts of analytical chemistry to students in the biological sciences. Topics include treatment of analytical data; chemical equilibria and titrations; introduction to spectroscopy; separation science; electrochemistry. Lectures and laboratory.

NOTE: This course may not be taken for credit by students registered in a Chemistry or Biochemistry program.

CHEM 217 Introductory Analytical Chemistry I (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for **all** prerequisite courses. Precipitation methods and solubility products; activity, chemical equilibria and titration curves of neutralization and complexation systems; treatment of analytical data. Lectures and laboratory.

CHEM 218 Introductory Analytical Chemistry II (3 credits)

Prerequisite: CHEM 217. Chemical equilibria and titration curves of oxidation-reduction, precipitation, and non-aqueous systems; potentiometry and potentiometric titrations; introduction to spectroscopy with emphasis on molecular and atomic absorption spectroscopy, fluorescence spectroscopy. Lectures and laboratory.

CHEM 221 Introductory Organic Chemistry I (3 credits)

Prerequisite: CHEM 205, 206. Basic aspects of orbitals and their role in covalent bonding; delocalization of electrons. Alkanes: structure,

nomenclature, isomerism, reactions. Introductory stereochemistry: enantiomers, diastereomers, conformers, Fischer and Newman projections, **specification of chirality, E/Z isomerism**. Conformations of cyclic compounds. Alkylhalides: S_N1 ; S_N2 ; $E1$; $E2$ reaction mechanisms. Free-radical reactions, organometallic compounds. Chemistry of alkenes, alkynes, and dienes. Lectures and laboratory.

CHEM 222 *Introductory Organic Chemistry II* (3 credits)

Prerequisite: CHEM 206, 221. Introduction to the use of IR and NMR spectroscopy for the identification of simple organic compounds. Benzene and aromatic compounds: aromaticity, electrophilic aromatic substitution, nucleophilic aromatic substitution, substituent effects. Chemistry of aldehydes and ketones: nucleophilic addition, oxidation, reduction, and condensation reactions, tautomerism. Chemistry of carboxylic acids and their derivatives. Chemistry of alcohols, ethers, and related compounds. Amines: basicity, reactions. Lectures and laboratory.

CHEM 234 *Physical Chemistry I: Thermodynamics* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for **all** prerequisite courses. The properties of real gases; fugacities; first, second and third laws of thermodynamics; the Phase Rule; one- and two-component systems; real solutions, and partial molal properties. Lectures, problem assignments, and assigned readings.

CHEM 235 *Physical Chemistry: Kinetics of Chemical Reactions* (3 credits)

Prerequisite: CHEM 234. Mathematical treatment of experimental results; theories of reaction rates; unimolecular reactions; the steady-state approximation; **factors influencing rates of reactions** in solution; acid-base catalysis; catalysis by enzymes and the Michaelis-Menten mechanism; free-radical reactions; photochemical reactions; experimental methods and techniques. Lectures and laboratory.

CHEM 241 *Inorganic Chemistry I: Introduction to Periodicity and Valence Theory* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for **all** prerequisite courses. The structure of the atom; the periodic table; properties of atoms, covalent bonding treatments including Lewis theory, valence shell electron pair repulsion theory of structure, valence bond and molecular orbital theory. Crystal field theory applied to the structure and properties of transition metal complexes. Bonding theories of metallic materials and semi-conductors. Lectures and laboratory.

CHEM 242 *Inorganic Chemistry II: The Chemistry of the Main Group Elements* (3 credits)

Prerequisite: CHEM 241. A survey of the prop-

erties and reactions of: hydrogen; Group 1, lithium to cesium; and Group 2, beryllium to radium; including the theory of ionic bonding and structure. The descriptive chemistry of Group 13, boron to thallium; Group 14, carbon to lead; Group 15, nitrogen to bismuth; Group 16, sulphur to polonium; Group 17, the halogens; and Group 18, the chemistry of the noble gases. Lectures and laboratory.

CHEM 271 *Biochemistry I* (3 credits)

Prerequisite: CHEM 221; CHEM 222 previously or concurrently. An introduction to the essentials of biochemistry: protein structure, enzymology, carbohydrate metabolism, electron transport, integration and regulation of metabolism. Lectures, tutorials and laboratory.

CHEM 298 *Selected Topics in Chemistry* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CHEM 312 *Intermediate Analytical Chemistry* (3 credits)

Prerequisite: CHEM 217; CHEM 218. A continuation of CHEM 217 and 218, with emphasis on instrumental methods of analysis. Emission spectroscopy; X-ray spectroscopy; voltammetry and polarography; amperometric titrations; coulometry and coulometric titrations, conductometry; chromatography with particular emphasis on gas chromatography, and high performance liquid chromatography. Laboratory is taken concurrently and provides experience in analytical techniques described in lectures. Lectures and laboratory.

CHEM 324 *Organic Chemistry III: Organic Reactions* (3 credits)

Prerequisite: CHEM 221, 222, 234; CHEM 235 previously or concurrently. A mechanistic survey of reactions of major synthetic utility. Determination of reaction mechanisms. Importance of reactive intermediates: carbocations, carbanions, radicals, and carbenes. Lectures and laboratory.

CHEM 325 *Organic Chemistry IV: Organic Structure and Stereochemistry* (3 credits)

Prerequisite: CHEM 324. Organic structure and stereochemistry including the relationship of stereochemistry to physical properties and chemical reactivity. Determination of organic structure and stereochemistry by chemical and spectroscopic means. Introduction to molecular symmetry. Lectures and laboratory.

CHEM 326 *Natural Products* (3 credits)

Prerequisite: CHEM 222, 235; CHEM 324 previously or concurrently. The structures, mechanisms of action, and biosynthetic origins of biologically important compounds such as fatty acids, polyketides, terpenes, steroids, alkaloids, and beta-lactam antibiotics are discussed. The role of traditional organic chemistry in the develop-

ment of modern biochemistry and biotechnology is illustrated with examples from medicine and agriculture. Lectures only.

CHEM 327 *Organic Chemistry of Polymers*
(3 credits)

Prerequisite: CHEM 221, 222, 235. Introduction to the fundamental aspects of polymers and polymerization. Methods of preparation, reaction mechanisms and kinetics of polymer synthesis including condensation polymerization; addition polymerization: free radical, anionic, cationic; heterogeneous (Ziegler-Natta) and homogeneous (metallocenes) coordination polymerization. Polymer characterization and uses. Lectures and problem sessions.

CHEM 333 *Introduction to Quantum Theory* (3 credits)

Prerequisite: CHEM 234, 241. The course introduces students to the concept of quantum mechanics and the electronic structure of atoms and molecules. Topics include the origins and postulates of quantum theory, the Schrödinger equation and applications to simple systems such as the harmonic oscillator, rigid rotor and the hydrogen atom. The course looks at the quantum mechanical treatment of the chemical bond and provides an introduction to spectroscopy. Lectures only.

CHEM 334 *Physical Chemistry: Laboratory*
(3 credits)

Prerequisite: CHEM 234, 235. A series of experiments illustrating modern techniques for the examination of solids, liquids, and gases. Some experiments may include the automated collection and computerized analysis of data. Laboratory only.

CHEM 335 *Biophysical Chemistry*
(3 credits)

Prerequisite: CHEM 222, 234, 235, 271. This course examines the physical basis for the structures of biomolecules (energetics of protein folding), the organization and structures of biomembranes and biologically relevant systems, and intermolecular interactions (e.g. ligand binding). Both fundamental theory and techniques used to characterize these physical properties are covered. Lectures and laboratory.

CHEM 341 *Inorganic Chemistry III: The Transition Metals* (3 credits)

Prerequisite: CHEM 217, 218, 241, 242. Theories of bonding in transition metal complexes, including ligand field theory, applied to structure, physical properties, and reactivity of transition metal complexes: organometallic chemistry and catalysis. Metals in biological systems. Lectures and laboratory.

CHEM 375 *Biochemistry II* (3 credits)

Prerequisite: CHEM 221, 222, 271. A survey of selected pathways in intermediary metabolism, including their regulation and physiological significance, lipid, amino acid and nucleoside

metabolism, cholesterol biosynthesis, urea cycle and the biochemistry of protein synthesis. Lectures and laboratory.

CHEM 393 *Spectroscopy and Structure of Organic Compounds* (3 credits)

Prerequisite: CHEM 221, 222. This course examines the identification of organic compounds using methods based on electronic, vibrational, nuclear magnetic resonance and mass spectroscopies. In each case, there is an introduction to the principles of the spectroscopy and a discussion of how its spectra vary with structure. Particular emphasis is placed upon the UV-visible spectra of conjugated molecules; the identification of functional groups by IR spectroscopy; the use of NMR spectroscopy, including 2D methods, for the determination of stereochemistry; and the use of mass spectrometry for ascertaining molecular constitution. The use of computer simulation and information retrieval for structure determination is introduced. Lectures and laboratory.

CHEM 398 *Selected Topics in Chemistry*
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CHEM 415 *Analytical Separations*
(3 credits)

Prerequisite: CHEM 218, 312. High performance liquid separations on an analytical (non-preparative) scale are surveyed. Fundamental separation mechanisms and application of the techniques are discussed. Emphasis is placed on separations of biologically relevant analytes which include peptides, proteins and nucleic acids. Lectures only. *NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.*

CHEM 418 *Aquatic Chemistry* (3 credits)

Prerequisite: CHEM 217, 218, 312. The major aim of this course is to present a quantitative treatment of the variables that determine the composition of natural waters by drawing upon basic chemical principles. Chemical equilibrium is the central theme of the course, but consideration is also given to kinetics, steady-state and dynamic models. Related themes include global chemical cycles, air and water pollution, as well as current research topics in water chemistry and chemical oceanography. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 419 *Independent Study and Practicum* (6 credits)

Prerequisite: Must have completed the 45-credit Core program, or equivalent, with a GPA of 2.00 (C) or better. In collaboration with and under the direction of a member of Faculty, the student carries out independent study and practical work on a problem chosen from the student's area of concentration. The student presents his

or her work to the Department in the form of a scientific poster and submits a written report to the supervisor.

NOTE: During the academic session before the one in which this project is to be undertaken, the student must have obtained the consent of the Department, by consultation with the CHEM 419 coordinator, and must have also been accepted by a faculty supervisor. Independent study and practical work.

CHEM 421 Physical Organic Chemistry
(3 credits)

Prerequisite: CHEM 222, 235; CHEM 324 or 325. Determination of organic reaction mechanisms using kinetics, activation parameters, acid-base catalysis, Bronsted catalysis law, solvent effects, medium effects, isotope effects, substituent effects, and linear free energy relationships. Lectures only.

CHEM 424 Organic Synthesis (3 credits)

Prerequisite: CHEM 222, 235, 324. This course is concerned with synthetic strategy and design. It provides an introduction to advanced synthetic methods and reagents, involving heteroatoms such as sulphur, phosphorus, tin and selenium, as well as an overview of the uses of protecting groups in organic chemistry. The concept of retrosynthesis and a few asymmetric reactions are discussed using syntheses of natural products from the literature as examples.

CHEM 425 Nucleic Acid Chemistry
(3 credits)

Prerequisite: CHEM 221, 222, 271. This course introduces students to various topics in nucleic acid chemistry. The topics include nomenclature, structure and function of RNA and DNA; techniques and methods to investigate nucleic acid structure; DNA damage and repair; interaction of small molecules and proteins with nucleic acid; oligonucleotide-based therapeutics (antisense, antigene, RNAi); synthesis of purines, pyrimidines and nucleosides; and solid-phase oligonucleotide synthesis. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 426 Reactive Intermediates
(3 credits)

Prerequisite: CHEM 324, 325. This course offers an introduction to reactive intermediates with an emphasis on structure and stability as found in modern (physical) organic chemistry. While the focus is on radicals and carbenes, carbocations are discussed near the end of the term. The material covered is relevant to chemistry and biochemistry. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 427 Supramolecular Chemistry
(3 credits)

Prerequisite: CHEM 324 or 325; CHEM 335; or

permission of the Department. Supramolecular chemistry is the chemistry of the intermolecular bond, i.e. 'chemistry beyond the molecule'. This course reviews some fundamental aspects of synthetic and biological supramolecular chemistry and nanotechnology. Topics covered may include supramolecular forces, ion binding and ion channels, molecular recognition, self-assembly (meso-scale and molecular-scale), organometallic supramolecular chemistry, dynamic combinatorial chemistry (DCC), and foldamers. Lectures only.
NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 431 Computational Chemistry for Chemists and Biochemists
(3 credits)

Prerequisite: CHEM 234, 241, 333 or permission of the Department. This course presents the concepts, tools, and techniques of modern computational chemistry, and provides a very broad overview of the various fields of application across chemistry and biochemistry. The course is divided into two parts: 1) *Molecular structure*, which covers molecular mechanics and elementary electronic structure theory of atoms and molecules; and 2) *Chemical reactivity*, which covers applications of quantum chemistry and molecular dynamics techniques to studies of chemical reactions. The applications discussed include organic molecules and their reactions, peptides and proteins, drug design, DNA, polymers, inorganics, and materials. The course includes a practical component where students acquire hands-on experience with commonly used computational chemistry computer software. Lectures and laboratory.
NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 435 Interfacial Phenomena
(3 credits)

Prerequisite: CHEM 234, 235. This course examines the physical chemistry of interfaces including surface and interfacial tensions, the absorption of surface active substances/surface excess properties, and surfactant self-assembly. Topics covered may include Gibbs and Langmuir monolayers, micelle formation, emulsions, foams, surfactant liquid crystals, layer-by-layer polymer self-assembly, and biological membranes. Techniques for characterization and applications (biological and industrial) of these systems are addressed. Lectures only.
NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 445 Industrial Catalysis (3 credits)

Prerequisite: CHEM 234, 235. Basic and recent concepts in catalysis are described with particular emphasis on heterogeneous catalysis. The technical, economic and environmental aspects of industrial catalysis are covered. The processes to be studied are chosen from the petroleum industry, the natural gas and coal processing

industry, and the production of thermoplastics and synthetic fibres. The course ends with a rapid survey of problems associated with the treatment of industrial pollutants and with catalytic converters. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 450 *Research Project and Thesis*
(6 credits)

Prerequisite: Sixty credits including the 45-credit Core program, or equivalent and enrolment in Honours in Chemistry; or Biochemistry, with a program GPA of 3.3 or better; or written permission of the Department. The student works on a research project in the student's area of concentration, selected in consultation with and conducted under the supervision of a faculty member of the Department. The student writes a thesis on the results and defends it before a departmental committee.

NOTE: During the academic session before the one in which this project is to be undertaken, the student must have obtained the consent of the Department, by consultation with the CHEM 450 coordinator, and must have also been accepted by a faculty supervisor.

CHEM 470 *Environmental Biochemistry*
(3 credits)

Prerequisite: CHEM 271, 375; BIOL 367; or permission of the Department. This course examines the biochemical effects of environmental stresses on organisms, and adaptations that allow organisms to face these stresses. Emphasis is placed on biochemical responses to toxic compounds such as aromatics, halogenated aliphatics, drugs, and heavy metals. Other topics may include adaptations to stresses such as temperature extremes, pathogens, and ionizing radiation. Applications to related biotechnological processes are also considered.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 471 *Enzyme Kinetics and Mechanism* (3 credits)

Prerequisite: CHEM 271, 375. Steady-state kinetics, including the use of initial velocity studies and product inhibition to establish a kinetic mechanism; nonsteady-state kinetics, isotope effects, energy of activation, detailed mechanisms of selected enzymes, etc. Lectures only.

CHEM 472 *Chemical Toxicology* (3 credits)

Prerequisite: CHEM 222, 271. Introduction to the general principles of toxicology with emphasis on the toxic effects of chemicals in humans. Dose-response relationship, types and routes of exposure, absorption and disposition of toxic substances, toxicokinetics, types of toxic response, and factors affecting toxic response. Toxicity testing, risk assessment, and interpretation of toxicological data. Lectures only.

CHEM 473 *Neurochemistry* (3 credits)

Prerequisite: BIOL 364; CHEM 271. Students examine the bioelectrical properties of neurons and how they may undergo marked changes — changes that are necessary for the cells to carry out their functions; neuromodulation, which is the ability of neurons to alter their electrical properties in response to intracellular biochemical changes caused by neurotransmitters or hormones; two changes in animal behaviour that arise from neuromodulation and synaptic plasticity — learning and memory; and drug addiction. The material covered includes cellular neurobiology, structure and function of various families of membrane receptor and ion channel proteins, communication between neurons and signalling in the brain. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 475 *Protein Engineering and Design*
(3 credits)

Prerequisite: CHEM 271, 375. This course examines the principles behind protein design, how techniques of protein engineering are used, and the methods used to assess protein properties. Examples include studies of protein stability, structure-function relationships, and applications to drug design. Lectures only.

CHEM 477 *Advanced Laboratory in Biochemistry* (3 credits)

Prerequisite: CHEM 271, 375. Theory and practice of techniques in enzymology and protein chemistry, including steady-state and stopped-flow enzyme kinetics, ligand binding, immunological techniques, proteomics, computer modelling, and chemical modification of proteins. Tutorials and laboratory.

CHEM 478 *Hormone Biochemistry*
(3 credits)

Prerequisite: CHEM 271, 375. This course deals with an in-depth study of the vertebrate hormones and involves a study of the precise chemical structure and properties of each hormone, its biosynthesis and mode of secretion from the cell. The circulating form of the hormone is examined, as well as the nature of the hormone receptor. The cellular mechanism of action and the relationship of the hormone's action to the intact animal are investigated. Lectures only.

CHEM 481 *Bioinorganic Chemistry*
(3 credits)

Prerequisite: CHEM 271; CHEM 241. Role of metals in biochemical systems. Essential trace elements, zinc enzymes, oxygen transport and storage, metalloproteins and biological electron transfer, structure-function relationships in heme enzymes, nitrogen fixation; model compounds for metalloproteins and metalloenzymes. Lectures only.

CHEM 493 *Magnetic Resonance Spectroscopy* (3 credits)

Prerequisite: CHEM 222, 393. This course is

designed to provide the background in magnetic resonance theory necessary to understand modern high-resolution NMR experiments and instrumentation. The basic theory in the introductory section also applies to electron spin resonance (ESR). Relaxation and through-bond and through-space interactions, and experiments to investigate them are considered. Spin manipulations and behaviour in multiple-pulse, Fourier transform NMR techniques used for common spectral editing and two-dimensional experiments are discussed. Lectures only.

CHEM 494 *Mass Spectrometry* (3 credits)
Prerequisite: CHEM 218, 222, 271. Production and interpretation of mass spectra. Topics include ionization methods (electron impact, chemical ionization and fast-atom bombardment); interpretation of mass spectra; introduction to quantitative analysis by mass spectrometry. Lectures only.

CHEM 495 *Modern Spectroscopy*
(3 credits)

Prerequisite: CHEM 234, 241, 333. This course demonstrates how quantum theory applies to the measurement of absorption and emission spectra of atoms and molecules. The course examines rotational, vibrational, and electronic spectroscopy. Photoelectron and related spectroscopies. Lasers and laser spectroscopy. Lectures and laboratory.

CHEM 498 *Advanced Topics in Chemistry*
(3 credits)

CHEM 499 *Advanced Topics in Chemistry*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.060

CLASSICS, MODERN LANGUAGES AND LINGUISTICS

Faculty	<p><i>Chair</i> BRADLEY J. NELSON, Associate Professor (Spanish)</p> <p><i>Professors</i> MARK HALE (Linguistics) LIONEL J. SANDERS (Classics) CATHERINE VALLEJO (Spanish)</p> <p><i>Associate Professors</i> M. CATHERINE BOLTON (Classics) ANTHONY COSTANZO (Italian) HELMUT F. FAMIRA (German) JANE E. FRANCIS (Classics) JOSÉ ANTONIO GIMÉNEZ-MICÓ (Spanish) HUGH HAZELTON (Spanish)</p>	<p>CHARLES REISS (Linguistics) LADY ROJAS-BENAVENTE (Spanish) FILIPPO SALVATORE (Italian) ANNETTE TEFFETELLER (Linguistics) BRUNO VILLATA (Italian)</p> <p><i>Assistant Professors</i> DARIO BRANCATO (Italian) SEAN GURD (Classics) DANIELA ISAC (Linguistics) M. GORETTI RAMÍREZ (Spanish)</p> <p><i>Lecturers</i> LIAN DUAN (Chinese) LUIS OCHOA (Spanish)</p>
	<p><i>Location</i> Sir George Williams Campus Hall Building, Room: H 663 514-848-2424 ext. 2310</p>	
Department Objectives	<p>Classics programs have two related aims: first, to provide a solid background to the cultures of ancient Greece and Rome through written documents, including historical and literary sources, and archaeological evidence; and second, to train students to read and interpret texts in ancient Greek and Latin. The Modern Language programs provide a stimulating intellectual milieu for learning and strengthening skills in critical thinking, language proficiency, intercultural understanding, literary studies and contemporary approaches to modern languages and cultures, particularly Spanish, Italian, German, Modern Arabic, and Modern Chinese. Linguistics is the scientific study of the human language faculty. Teaching and research in the Linguistics programs focus on two areas: linguistics as a branch of cognitive science, encompassing fields such as syntax, phonology and language acquisition; and the nature of language change, with particular emphasis on the Indo-European language family.</p>	
Programs	<p>The Department of Classics, Modern Languages and Linguistics offers undergraduate programs leading to the BA degree in Classics, Italian, Spanish, and Linguistics. In addition, it offers Minor and Certificate programs in German, Modern Arabic Language and Culture, and Modern Chinese Language (Mandarin) and Culture.</p>	

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.

All these programs can normally be completed within the regular three-year university sessions.

Classics

60 BA Honours in Classics

36 Honours Core consisting of:

- 9 Chosen from CLAS 211³, 212³, 320³, 330³
- 6 CLAS 280⁶ or 290⁶
- 6 CLAS 381³ and 382³, or 391³ and 392³
- 3 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
- 3 CLAS 261³ or 262³
- 3 Chosen from CLAS 266³, 267³, 353³, 364³, 365³, 369³
- 6 CLAS 450³, 451³

Concentration in Classical Languages and Literature

- 36 Honours Core (see above)
- 6 CLAS 280⁶ or 290⁶
- 6 CLAS 381³ and 382³, or 391³ and 392³
- 6 CLAS 410³ and 411³, or 420³ and 421³
- 6 Linguistics courses chosen in consultation with the Department

Concentration in Classical Civilization

- 36 Honours Core (see above)

- 9 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 6 Chosen from CLAS 266³, 364³, 365³, 369³, 370³
 - 3 Chosen from CLAS 261³, 262³, 353³
 - 6 Credits in either Classics or another subject chosen in consultation with the Department
- 42 BA Major in Classics**
- 18 *Major Core consisting of:*
 - 9 Chosen from CLAS 211³, 212³, 320³, 330³
 - 3 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 3 CLAS 261³ or 262³
 - 3 Chosen from CLAS 266³, 267³, 353³, 364³, 365³, 369³
- Concentration in Classical Languages and Literature*
- 18 Major Core (see above)
 - 6 CLAS 280⁶ or 290⁶
 - 6 CLAS 381³ and 382³, or 391³ and 392³
 - 6 CLAS 410³ and 411³, or 420³ and 421³
 - 6 CLAS 280⁶ or 290⁶, or other Linguistics courses chosen in consultation with the Department
- Concentration in Classical Civilization*
- 18 Major Core (see above)
 - 9 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 6 Chosen from CLAS 266³, 267³, 364³, 365³, 369³, 370³
 - 3 Chosen from CLAS 261³, 262³, 353³
 - 6 Credits in either Classics or another subject chosen in consultation with the Department
- 24 Minor in Classical Languages and Literature**
- 12 CLAS 211³, 212³, 320³, 330³
 - 12 Chosen from 280⁶, 290⁶, 381³, 382³, 391³, 392³
- 24 Minor in Classical Civilization**
- 6 Chosen from CLAS 211³, 212³, 320³, 330³
 - 6 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 12 Chosen from CLAS 261³, 262³, 266³, 267³, 280⁶, 290⁶, 353³
- 24 Minor in Classical Archaeology**
- 3 CLAS 266³
 - 6 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 9 Chosen from CLAS 267³, 364³, 365³, 369³, 370³
 - 6 Credits in either Classics or another subject chosen in consultation with the Department

Arabic (Modern Standard)

- 33 Minor in Modern Arabic Language and Culture**
- 21 MARA 205⁹, 206⁶, 240⁶
 - 3 MARA 365³

- *9 Chosen from MARA 310³, 398³, FLIT 362³; HIST 240³, 241³; POLI 391³, 395³; RELI 224³, 316³, 318³, 319³
- 33 Certificate in Modern Arabic Language and Culture**
- 21 MARA 205⁹, 206⁶, 240⁶
 - 3 MARA 365³
 - *9 Chosen from MARA 310³, 398³; FLIT 362³; HIST 240³, 241³; POLI 391³, 395³; RELI 224³, 316³, 318³, 319³

**Students may select a maximum of six credits from one subject area.*

Chinese (Mandarin)

- 30 Minor in Modern Chinese Language (Mandarin) and Culture**
- 21 MCHI 205⁹, 206⁶, 240⁶
 - *9 Chosen from MCHI 308³, 310³, 398³; HIST 262³, 367³; POLI 335³; RELI 360³
- 30 Certificate in Modern Chinese Language (Mandarin) and Culture**
- 21 MCHI 205⁹, 206⁶, 240⁶
 - *9 Chosen from MCHI 308³, 310³, 398³; HIST 262³, 367³; POLI 335³; RELI 360³

**Students may select a maximum of six credits from one subject area.*

German

- 60 BA Honours in German***
- 12 GERM 240⁶, or 241³ and 242³; 256³, 257³
 - 24 GERM 271³, 301³, 302³, 306³, 307³, 308³, 365³, 366³
 - 21 Credits chosen from 400-level courses in German, of which at least six credits must be from GERM 405³, 406³, 461³, 462³
 - 3 GERM 490³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

**Admission suspended for 2008-09.*

- 42 BA Major in German***
- 12 GERM 240⁶, or 241³ and 242³; 256³, 257³
 - 15 Credits chosen from GERM 271³, 301³, 302³, 306³, 307³, 308³, 365³, 366³
 - 15 Credits chosen from 400-level courses in German, of which at least six credits must be from GERM 405³, 406³, 461³, 462³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

**Admission suspended for 2008-09.*

- 33 Minor in German**
- 6 GERM 230³ and 231³
 - 18 Credits chosen from GERM 200⁶, or 201³ and 202³; 240⁶, or 241³ and 242³; 270³, 301³; 310³ or 311³; 361³ or 362³
 - 9 Credits chosen from GERM 302³; 306³; 307³; 310³ or 311³; 361³ or 362³; 410³;

420³; of which at least three credits must be at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Italian

60 BA Honours in Italian

- 6 ITAL 240⁶, or ITAL 241³ and 242³, or ITAL 253³ and 254³
- 12 Credits chosen from ITAL 301³, 302³, 310³, 311³, 365³, 366³
- 39 Credits in an approved sequence chosen from all courses in Italian
- 3 ITAL 490³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

42 BA Major in Italian

- 6 ITAL 240⁶, or ITAL 241³ and 242³, or ITAL 253³ and 254³
- 12 Credits chosen from ITAL 301³, 302³, 310³, 311³, 365³, 366³
- 24 Credits in an approved sequence chosen from all courses in Italian

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

30 Minor in Italian

- 30 Credits in Italian

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Spanish

60 BA Honours in Spanish (Literature and Society)

- 15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
- 15 Credits chosen from SPAN 310³, 311³, 320³, 321³, 362³, 363³, 365³
- 12 Credits chosen from SPAN 406 to 472, excluding SPAN 464 and 465
- 6 Credits chosen from courses higher than SPAN 308, excluding SPAN 464 and 465
- 6 SPAN elective credits at the 400 level, excluding SPAN 464 and 465
- 6 SPAN 490³, 491³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

60 BA Specialization in Spanish (Expression and Culture)

- 15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
- 15 Credits chosen from SPAN 310³, 311³, 320³, 321³, 362³, 363³, 365³
- 9 Credits chosen from Group B (SPAN 446 to 474)
- 12 Credits chosen from courses higher than SPAN 303
- 6 SPAN elective credits at the 400 level

- 3 SPAN 495³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

42 BA Major in Spanish

Option A: Literature and Society

- 15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
- 9 Credits chosen from SPAN 310³, 311³, 320³, 321³
- 6 Credits chosen from SPAN 362³, 363³, 365³
- 9 Credits chosen from Group A (SPAN 406 to 445)
- 3 SPAN elective credits at the 400 level

Option B: Expression and Culture

- 15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
- 6 Credits chosen from SPAN 310³, 311³, 320³, 321³
- 9 Credits chosen from SPAN 306³, 307³, 362³, 363³, 365³
- 9 Credits chosen from Group B (SPAN 446 to 474)
- 3 SPAN elective credits at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

30 Minor in Spanish

- 18 SPAN 200⁶ (or 201³ and 202³), 240⁶ (or 241³ and 242³), 301³, 303³
- 12 Credits chosen from all other courses above SPAN 301, of which three credits must be at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

33 Minor in Spanish Translation

- 18 SPAN 200⁶ (or 201³ and 202³), 240⁶ (or 241³ and 242³), 301³, 303³
- 12 SPAN 306³, 307³, 473³, 474³
- 3 Credits chosen from SPAN 362³, 363³, 365³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Linguistics

21 Core Program

- 21 LING 200³, 222³, 315³, 336³, 372³, 373³, 420³

60 BA Honours in Linguistics

- 21 Core Program
- 3 Credits chosen from LING 320³, 353³, 380³
- 9 LING 421³, 425³, 475³
- 9 Credits chosen from LING 415³, 429³, 436³, 437³, 473³
- 3 Credits chosen from LING 330³, 446³, 447³, 456³, 457³, 461³
- 12 Additional LING credits (in consultation with the Department, related courses in other disciplines may be counted as satisfying this part of the requirement)
- 3 LING 490³

42 BA Major in Linguistics

21 Core Program

3 Credits chosen from LING 320³, 353³, 380³6 Credits chosen from LING 415³, 421³, 425³, 429³, 473³, 475³6 Credits chosen from LING 330³, 436³, 437³, 446³, 447³, 456³, 457³, 461³

6 Additional LING credits (in consultation with the Department, related courses in other disciplines may be counted as satisfying this part of the requirement)

24 Minor in Linguistics6 LING 200³, LING 222³

18 Credits in Linguistics

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PROGRAM COURSES:**Classics****CLAS 211 Greek Literature** (3 credits)

An introduction to the literature of ancient Greece, this course focuses on Homer and the epic cycle, the Homeric hymns, Hesiod and lyric poetry, tragedy and comedy. The texts are read in English translation.

CLAS 212 Roman Literature (3 credits)

An introduction to the major authors of the Roman world, this course focuses on Catullus, Virgil, Horace, Ovid and Lucretius; works of the dramatists, orators and satirists may also be included. The texts are read in English translation.

CLAS 230 (also listed as HIST 219)**Ancient Near East** (3 credits)

A political, social, economic, and intellectual history of the ancient Near East, this course surveys the period from the origins of civilization in the middle of the fourth millennium to Alexander the Great's conquest of the Persian Empire in the latter part of the fourth century B.C.

NOTE: Students who have received credit for HIST 219 may not take this course for credit.

CLAS 240 (also listed as HIST 223)**Greek History from the Bronze Age to Alexander** (3 credits)

This course offers a political, social, economic, and cultural history of Greece from the Minoan-Mycenaean period in the second millennium to the end of Classical Greek civilization in the fourth century B.C., with special emphasis placed upon Athens.

NOTE: Students who have received credit for HIST 223 may not take this course for credit.

CLAS 242 (also listed as HIST 225)**History of the Roman Republic** (3 credits)

This course offers a political, social, economic, and cultural history of Rome from the city's origins to the establishment of the Roman Empire under the Emperor Augustus.

NOTE: Students who have received credit for HIST 225 may not take this course for credit.

CLAS 261 Greek Mythology (3 credits)

A survey of the myths of ancient Greece and their characters — deities, heroes, mortals and monsters, this course examines the significance

of the myths within their own time and their relevance for the modern world. Both literary and visual sources are used.

CLAS 262 Mythology of the Ancient Mediterranean (3 credits)

An examination of the common mythological themes of the ancient Mediterranean, this course focuses on the events, the characters, and the significance of recurrent elements as found in the myths of Mesopotamia, Egypt, Greece, and Rome.

CLAS 266 An Introduction to Classical Archaeology (3 credits)

This course provides a general overview of the material remains of ancient Greece from the Bronze Age to the Hellenistic period. It addresses the function, context, dating, and meaning of artifacts, as well as methods of analysis.

NOTE: Students who have received credit for CLAS 266 may not take this course for credit.

CLAS 267 The Archaeology of the Greek Bronze Age (3 credits)

The Bronze Age in Mainland Greece, Crete, and the Greek Islands.

CLAS 280 Introductory Ancient Greek (6 credits)

The fundamentals of Greek grammar are presented in a course designed to enable the student to read the ancient authors as soon as possible.

CLAS 290 Introductory Latin (6 credits)

The fundamentals of Latin grammar are presented in a course designed to enable the student to read the principal Roman authors as soon as possible.

CLAS 298 Selected Topics in Classics (3 credits)**CLAS 299 Selected Topics in Classics** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CLAS 320 The Heroic Epics of Greece and Rome (3 credits)

Homer's *Iliad* and *Odyssey* and Virgil's *Aeneid*

are considered in depth, with some attention given to other examples of epic, such as the *Argonautica* of Apollonius of Rhodes and Lucan's *Pharsalia*. Topics include epic as a genre, the nature of oral poetry, ethical values presented and the epic tradition and innovation. The texts are read in English translation.

CLAS 330 *Greek Drama* (3 credits)
Designed as an introduction to Greek drama from the origins of tragedy in the sixth century to New Comedy, this course consists of a detailed study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander. Also considered are Aristotle's *Poetics* and production techniques of the Greek theatre. The texts are read in English translation.

CLAS 341 *(also listed as HIST 323)*
Greek History from Alexander to the Roman Conquest (3 credits)
A political, social, economic, and cultural history of the Greek world from Alexander the Great to the Roman conquest of Greece in 146 B.C.
NOTE: Students who have received credit for CLAS 241/HIST 224 or HIST 323 may not take this course for credit.

CLAS 343 *(also listed as HIST 327)*
History of the Roman Empire (3 credits)
This course offers a political, social, economic, and cultural history of the Roman Empire from Augustus to the end of the Roman Empire in the West.
NOTE: Students who have received credit for CLAS 243/HIST 226 or HIST 327 may not take this course for credit.

CLAS 353 *Representations of Women in Ancient Greece and Rome* (3 credits)
The ancient Greek and Roman representations of women are examined within their historical and cultural contexts. Focus is placed on the changing social roles, status and images of women in antiquity. Both visual and literary sources are used.

CLAS 364 *Classical Greek Art and Archaeology* (3 credits)
An exploration of the monuments and artifacts of Classical Greece, ca. 680 to 380 B.C., this course concentrates on architecture, sculpture, vase painting, artistic production and methods of interpretation.

CLAS 365 *Art and Archaeology of the Hellenistic Age* (3 credits)
An investigation of the art and archaeology of the Hellenistic age from the death of Alexander in 323 to the mid-first century B.C., this course examines architecture, sculpture, mosaics, wall painting and the minor arts; emphasis is on the Roman influence on Greek art of the period.

CLAS 369 *Roman Art and Archaeology* (3 credits)
An introduction to the artifacts and monuments of Roman civilization from the sixth century B.C. through the Empire (third century A.D.), this course examines artistic styles, techniques, function, iconography and interpretation.

CLAS 370 *Practicum in Archaeology* (3 credits)
Prerequisite: Permission of the Department. This course is designed to give the student on-site fieldwork experience in either survey or excavation work. At least one month in the field is required.

CLAS 381 *Reading Greek Prose* (3 credits)
Prerequisite: CLAS 280 or equivalent. Prose works of authors such as Herodotus, Xenophon and Plato are read in the original Greek text. Attention is given to further study of grammatical and syntactical structures of the language.
NOTE: Students who have received credit for CLAS 380 may not take this course for credit.

CLAS 382 *Reading Greek Poetry* (3 credits)
Prerequisite: CLAS 280 or equivalent. Selected works of the ancient poets are read in the original Greek text, with emphasis on Homer and Euripides. Attention is given to further study of the grammatical and syntactical structures of the language.
NOTE: Students who have received credit for CLAS 380 may not take this course for credit.

CLAS 391 *Reading Latin Prose* (3 credits)
Prerequisite: CLAS 290 or equivalent. Prose works of authors such as Caesar, Cornelius Nepos, Cicero and Pliny are read in the original Latin text. Attention is given to further study of grammatical and syntactical structures of the language.
NOTE: Students who have received credit for CLAS 390 may not take this course for credit.

CLAS 392 *Reading Latin Poetry* (3 credits)
Prerequisite: CLAS 290 or equivalent. Selected works of the Roman poets are read in the original Latin text, with emphasis on Catullus, Ovid, Martial and Petronius. Attention is given to further study of grammatical and syntactical structures of the language.
NOTE: Students who have received credit for CLAS 390 may not take this course for credit.

CLAS 398 *Selected Topics in Classics* (3 credits)

CLAS 399 *Selected Topics in Classics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CLAS 410 *Advanced Greek Prose* (3 credits)
Prerequisite: CLAS 381 and 382, or equivalent. Works of the Greek historians, philosophers and

orators are studied in depth. While authors read vary from year to year, the primary focus is on Herodotus, Thucydides, Plato or Demosthenes.

CLAS 411 *Advanced Greek Poetry*
(3 credits)

Prerequisite: CLAS 381 and 382, or equivalent. Works of Greek epic, lyric or dramatic poetry are studied in depth. While authors read vary from year to year, the primary focus is on Homer, Aeschylus, Sophocles, Euripides or Pindar.

CLAS 420 *Advanced Latin Prose*
(3 credits)

Prerequisite: CLAS 391 and 392, or equivalent. Works of the Roman historians, philosophers and orators are studied in depth. While authors read vary from year to year, the primary focus is on Cicero, Sallust, Livy or Tacitus.

CLAS 421 *Advanced Latin Poetry*
(3 credits)

Prerequisite: CLAS 391 and 392, or equivalent. Works of the Roman poets are studied in depth. While authors read vary from year to year, the primary focus is on Virgil, Ovid, Horace, Juvenal or Lucretius.

CLAS 450 *Honours Seminar* (3 credits)
Prerequisite: Permission of the Department. The seminars focus on oral presentations by students. Topics vary from year to year.

CLAS 451 *Honours Thesis* (3 credits)
Prerequisite: Permission of the Department. The student works with an individual faculty member in a particular area of archaeology, history or philology to produce an extensive research paper.

CLAS 480 *Tutorial* (3 credits)
Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

CLAS 498 *Advanced Topics in Classics*
(3 credits)

CLAS 499 *Advanced Topics in Classics*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Arabic (Modern Standard)

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

MARA 205 *Introduction to Modern Standard Arabic I* (9 credits)
This course provides an intensive introduction

to the basic elements of Modern Standard Arabic for the student with no knowledge of the language. Instruction addresses all the language competencies of Modern Standard Arabic.

MARA 206 *Introduction to Modern Standard Arabic II* (6 credits)

Prerequisite: MARA 205. This course continues the introduction to the basic elements of Modern Standard Arabic. Students practise conversation skills on basic general topics.

MARA 240 *Intermediate Modern Standard Arabic* (6 credits)

Prerequisite: MARA 206. This course provides a review of the basic elements of Modern Standard Arabic and continues to develop the four language skills within their cultural context. Students prepare brief essays and oral presentations.

MARA 310 *Introduction to the Literature of the Arab World* (3 credits)

This course provides an introduction to the works of some of the major writers of contemporary Arabic culture. The course is taught in English and readings are in English translation.

MARA 365 *The Culture and Civilization of the Arab World* (3 credits)

This course provides an overview of the cultural manifestations of the Arab world. Topics include art, literature, culture, history, and philosophy. This course is taught in English.

MARA 398 *Special Topics in Arabic Language and Culture*
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MARA 480 *Tutorial* (3 credits)
Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

Chinese (Mandarin)

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

MCHI 205 *Introduction to Modern Chinese (Mandarin) I* (9 credits)

This course provides an intensive introduction to the basic elements of Mandarin Chinese for the student with no knowledge of the language. Emphasis is on basic grammatical concepts, listening comprehension, and sound reproduction. Approximately 300 characters are studied.

MCHI 206 *Introduction to Modern Chinese (Mandarin) II* (6 credits)

Prerequisite: MCHI 205. This course continues the introduction to the basic elements of Mandarin Chinese, adding approximately 300 further characters.

MCHI 240 *Intermediate Modern Chinese (Mandarin)* (6 credits)

Prerequisite: MCHI 206. The aim of this course is to consolidate the knowledge acquired in MCHI 205 and 206 and pursue communication skills on basic general topics in all competencies of the language, adding approximately 300 further characters.

MCHI 308 *Introduction to Business Chinese (Mandarin)* (3 credits)

Prerequisite: MCHI 240. This course introduces students to the basic vocabulary, style, and practice of doing business in China.

MCHI 310 *Introduction to Modern Chinese Literature* (3 credits)

This course provides an introduction to the works of some of the major writers of contemporary Chinese culture. The course is taught in English and reading materials are in English translation.

MCHI 398 *Special Topics in Chinese Language and Culture* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MCHI 480 *Tutorial* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

German

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

GERM 200 *Introductory German: Intensive Course* (6 credits)

This course provides a comprehensive introduction to most of the basic elements of the German language for the student with no knowledge of German. Practice is provided through short readings, conversation, composition, and lab work. This course covers the same material as GERM 201 and 202.

NOTE: Students who have received credit for GERM 201 or 202 may not take this course for credit.

GERM 201 *Introductory German I* (3 credits)

This course provides an introduction to the

elements of the German language for the student with no knowledge of German. Practice is provided through short readings, conversation, composition, and lab work.

NOTE: Students who have received credit for GERM 200 may not take this course for credit.

GERM 202 *Introductory German II* (3 credits)

Prerequisite: GERM 201. This course is a continuation of GERM 201 and completes the study of the basic elements of the German language. Practice is provided through short readings, conversation, composition, and lab work.

NOTE: Students who have received credit for GERM 200 may not take this course for credit.

GERM 230 *Introduction to German Culture* (3 credits)

This course offers a panoramic study of the major components of the culture of German-speaking countries from the Middle Ages to contemporary times. Attention is given to these countries' artistic, social, political, and economic life. This course is taught in English.

GERM 231 *German Literature in Translation* (3 credits)

This course focuses on reading and discussion of twentieth-century literary works and films from Germany, Austria, and Switzerland. Works translated from German are used. This course is taught in English, but advanced German students are encouraged to read the texts in German.

GERM 240 *Intermediate German: Intensive Course* (6 credits)

Prerequisite: GERM 200 or 202. This course provides a review of German grammar in a single term and furnishes additional details not dealt with in the introductory courses. It covers the same material as GERM 241 and 242. Practice is provided through readings, discussions, and composition.

NOTE: Students who have received credit for GERM 241 or 242 may not take this course for credit.

GERM 241 *Intermediate German I* (3 credits)

Prerequisite: GERM 200 or 202. This course provides a review of German grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for GERM 240 may not take this course for credit.

GERM 242 *Intermediate German II* (3 credits)

Prerequisite: GERM 241. This course is a continuation of GERM 241. It completes the review of the grammar and includes additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

GERM 260 *German for Reading Knowledge* (3 credits)

This course introduces the student to reading strategies, grammar, resources, and basic vocabulary and leads to a second-year reading knowledge of German in 13 weeks. This course is taught in English.

NOTE: Students registered in the German Minor Program may not take this course for credit.

GERM 270 *Conversational German I* (3 credits)

Prerequisite: GERM 241 or permission of the Department. This course develops oral communication skills and is applicable to real-life situations such as those in business, the arts, society, and education.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 298 AND HIGHER WILL BE CONDUCTED IN GERMAN.

GERM 298 *Selected Topics in German* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GERM 301 *Advanced Grammar and Composition I* (3 credits)

Prerequisite: GERM 240 or 242 or permission of the Department. This course is designed to help students understand advanced aspects of German grammar and to provide practice in the correct and effective writing of German.

GERM 302 *Advanced Grammar and Composition II* (3 credits)

Prerequisite: GERM 301. This course continues the study of advanced aspects of German grammar and provides practice in the correct and effective writing of German by means of composition such as the summary, description, narration, argumentation, and essay.

GERM 306 *Translation I* (3 credits)

Prerequisite: GERM 240 or 242. This course deals with problems and techniques of translation into German, specialized vocabulary, and common German usage.

GERM 307 *Translation II* (3 credits)

Prerequisite: GERM 306. This course is a continuation of GERM 306. The translation of a variety of texts concentrates on linguistic analysis and on the translation of idiomatic expressions.

GERM 310 *Introduction to Modern German Literature I* (3 credits)

Prerequisite: GERM 301. This course provides a general overview of the major authors and trends of German literature from 1750 to 1900 within an historical context.

GERM 311 *Introduction to Modern German Literature II* (3 credits)

Prerequisite: GERM 301. This course provides a

general overview of the major authors and trends of German literature in the twentieth century within an historical context.

GERM 361 *Topics in the Culture of German-Speaking Nations* (3 credits)

Prerequisite: GERM 240 or 242. Topics vary from year to year. Possible topics include German film; literature of the Counter-culture; Germany and the Holocaust; immigrant culture and its discourse; women's writing; popular culture; Medieval Germany; kings, castles, and minstrels; cultural diversity in German-speaking nations. **Specific topics for this course will be stated in the Undergraduate Class Schedule.**

NOTE: Students may take this course twice for credit in their program provided the subject matter is different.

GERM 362 *Modern Germany* (3 credits)

Prerequisite: GERM 240 or 242. This course gives an overview of the developments in Germany throughout the twentieth century. The emphasis of the course may vary from year to year with such topics as Germany between World War I and II, the formative years after WWII and the development of East and West Germany, and the unified Germany. Materials to be studied include historical and topical documents, film, video, and Web-based resources.

GERM 370 *Conversational German II* (3 credits)

Prerequisite: GERM 270. This course emphasizes the discussion and analysis of short and non-fictional and journalistic German texts to structure oral practice and to develop reading skills.

GERM 398 *Selected Topics in German* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GERM 410 *Dramatic Representations in German Cultures* (3 credits)

Prerequisite: GERM 310 or 311. The subject matter of this course varies. Topics may include classical German theatre, the theatre of Bertolt Brecht, and developments in contemporary theatre. *NOTE: Students who have received credit for GERM 432 or 436 may not take this course for credit.*

GERM 420 *Narrative Representation in German Literature* (3 credits)

Prerequisite: GERM 310 or 311. The subject matter of this course varies. Topics may include post-reunification German prose, German Bildungsroman, representations of the Holocaust in German prose, migrant literature in Germany, and literature of the divided Germany.

GERM 480 *Tutorial I* (3 credits)

Prerequisite: Permission of the Department. This course offers guided readings in German

language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 481 *Tutorial II* (3 credits)

Prerequisite: Permission of the Department.
This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 482 *Tutorial III* (3 credits)

Prerequisite: Permission of the Department.
This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 483 *Tutorial IV* (3 credits)

Prerequisite: Permission of the Department.
This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

**GERM 490 *Honours Essay Tutorial*
(3 credits)**

Prerequisite: Honours status. This course provides the Honours candidate with the opportunity to prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the German section.

**GERM 498 *Advanced Topics in German*
(3 credits)**

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Italian

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

ITAL 200 *Introductory Italian: Intensive Course* (6 credits)

This course provides a comprehensive introduction to the Italian language, completing the fundamental aspects of grammar in one term. This course covers the same material as ITAL 201 and 202.
NOTE: Students who have received credit for ITAL 201 or 202 or 210 or 211 or 252 or 253 or 254 may not take this course for credit.

ITAL 201 *Introductory Italian I* (3 credits)

This course provides an introduction to the basic elements of Italian for the student with no knowledge of the language.
NOTE: Students who have received credit for ITAL 200 or 210 or 211 or 252 or 253 or 254 may not take this course for credit.

ITAL 202 *Introductory Italian II* (3 credits)

Prerequisite: ITAL 201. The objective is to complete the study of fundamental aspects of Italian grammar.
NOTE: Students who have received credit for ITAL 200 or 210 or 211 or 252 or 253 or 254 may not take this course for credit.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 240 AND HIGHER WILL BE CONDUCTED IN ITALIAN.

ITAL 240 *Intermediate Italian: Intensive Course* (6 credits)

Prerequisite: ITAL 200 or 202. This course provides a review of Italian grammar in one term and deals with additional details not covered in the introductory course. It covers the same material as ITAL 241 and 242. Practice is provided through readings, discussions, and composition.
NOTE: Students who have received credit for ITAL 241 or 242 or 250 or 251 or 252 or 253 or 254 may not take this course for credit.

ITAL 241 *Intermediate Italian I* (3 credits)

Prerequisite: ITAL 200 or 202. This course provides a review of Italian grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.
NOTE: Students who have received credit for ITAL 240 or 250 or 251 or 252 or 253 or 254 may not take this course for credit.

ITAL 242 *Intermediate Italian II* (3 credits)

Prerequisite: ITAL 241. This course is a continuation of ITAL 241. It completes the review of the grammar and provides additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.
NOTE: Students who have received credit for ITAL 240 or 250 or 251 or 252 or 253 or 254 may not take this course for credit.

**ITAL 253 *Italian for Dialect Speakers I*
(3 credits)**

This course is designed for speakers of Italian dialects who wish to acquire training in standard Italian. Emphasis is placed on grammar, lexicon, sentence structure, and other fundamentals of good usage. Both oral and written expression are emphasized.
NOTE: Students who have received credit for ITAL 200 or 201 or 202 or 240 or 241 or 242 or 252 may not take this course for credit.

**ITAL 254 *Italian for Dialect Speakers II*
(3 credits)**

Prerequisite: ITAL 253. This course is a continuation of ITAL 253. It presents additional material not covered in ITAL 253 and provides practice through short readings, discussions, and composition.
NOTE: Students who have received credit for ITAL 200 or 201 or 202 or 240 or 241 or 242 or 252 may not take this course for credit.

ITAL 256 *Translation I* (3 credits)
Prerequisite: ITAL 200 or 202 or 254. This course provides a review of the Italian grammar and introduces students to the fundamentals of translation.
NOTE: Students who have received credit for ITAL 255 may not take this course for credit.

ITAL 257 *Translation II* (3 credits)
Prerequisite: ITAL 256. This course continues the review of Italian grammar begun in ITAL 256 and uses selected short texts for translation into Italian.
NOTE: Students who have received credit for ITAL 255 may not take this course for credit.

ITAL 298 *Selected Topics in Italian*
(3 credits)

ITAL 299 *Selected Topics in Italian*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ITAL 301 *Advanced Grammar and Composition I* (3 credits)
Prerequisite: ITAL 240 or 242 or 254. This course is intended to give the student increased fluency in and a firmer command of the language.

ITAL 302 *Advanced Grammar and Composition II* (3 credits)
Prerequisite: ITAL 301. This course is a continuation of ITAL 301. It provides students with further practice in advanced grammar and composition.

ITAL 306 *Advanced Translation I*
(3 credits)
Prerequisite: ITAL 257. This course deals with idiomatic Italian usage and provides practice by means of translations into Italian of published material on a variety of topics.

ITAL 307 *Advanced Translation II*
(3 credits)
Prerequisite: ITAL 306. This course is a continuation of ITAL 306. It deals with advanced problems and techniques of translation from Italian and into Italian.

ITAL 308 *Italian for Business* (3 credits)
Prerequisite: ITAL 240 or 242 or 254. This course is designed to give intermediate-advanced level students a solid foundation in business vocabulary, correspondence, and basic business practices, as well as the cultural concepts necessary to enable them to express themselves in the Italian-speaking business world.
NOTE: Students who have received credit for this topic under an ITAL 298 number may not take this course for credit.

ITAL 310 *Survey of Italian Literature I*
(3 credits)
Prerequisite: ITAL 240 or 242 or 254. This

course examines the major authors and trends of Italian literature from its origins to the end of the sixteenth century.

ITAL 311 *Survey of Italian Literature II*
(3 credits)
Prerequisite: ITAL 240 or 242 or 254. This course examines the major authors and trends of Italian literature from the beginning of the seventeenth century to the present.

ITAL 365 *Italian Civilization I* (3 credits)
Prerequisite: ITAL 240 or 242 or 254. This course provides a survey of Italy's cultural and scientific achievements until the end of the sixteenth century. Attention is given to Italy's social, political, and economic life.

ITAL 366 *Italian Civilization II* (3 credits)
Prerequisite: ITAL 240 or 242 or 254. This course provides a survey of Italy's cultural and scientific achievements from the beginning of the seventeenth century to the present day. Attention is given to Italy's social, political, and economic life.

ITAL 398 *Selected Topics in Italian*
(3 credits)

ITAL 399 *Selected Topics in Italian*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ITAL 415 *Dante and the Middle Ages*
(3 credits)
Prerequisite: ITAL 310 or 365. In this course selected passages of the *Vita nuova*, the *Monarchia*, and other earlier works are studied. Dante's contributions to the formation of the Italian language, literature, and culture are considered in their historical, social, and political context.

ITAL 416 *Dante: Divina Commedia*
(3 credits)
Prerequisite: ITAL 310 or 365. This course undertakes an analysis of selected cantos of the *Divina Commedia* as a synthesis of medieval culture.

ITAL 422 *Petrarch and Boccaccio*
(3 credits)
Prerequisite: ITAL 310 or 365. This course examines the origin and evolution of the early Italian novella. Petrarch and Boccaccio are studied as forerunners of humanism; emphasis is placed on Petrarch's *Canzoniere* and Boccaccio's *Decameron*.
NOTE: Students who have received credit for ITAL 420 or 421 may not take this course for credit.

ITAL 427 *Italian Humanism and the Renaissance* (3 credits)
Prerequisite: ITAL 310 or 365. This course deals with the rise of humanism and analyses the Renaissance as a historical and cultural

concept. References are made to the social, historical, and artistic trends in fifteenth- and early sixteenth-century Italy. Emphasis is on representative works of Alberti, Valla, Leonardo da Vinci, Pico della Mirandola and Machiavelli. *NOTE: Students who have received credit for ITAL 425 or 430 may not take this course for credit.*

ITAL 434 *The Epic Tradition in Italy*
(3 credits)

Prerequisite: ITAL 310 or 365. This course explores the nature and evolution of the chivalresque genre in Italy, mainly within the context of the fifteenth and sixteenth centuries, and with special emphasis on Ariosto and Tasso. *NOTE: Students who have received credit for ITAL 432 or 433 may not take this course for credit.*

ITAL 435 *The Baroque Age in Italy*
(3 credits)

Prerequisite: ITAL 311 or 366. This course presents a study of the Baroque as a cultural concept, and deals with representative literary, historical, artistic, and scientific works from such figures as Marino, Sarpi, Campanella, Galileo, and Bernini.

ITAL 436 *The Age of Enlightenment in Italy* (3 credits)

Prerequisite: ITAL 311 or 366. This course examines the Enlightenment as a cultural concept, and provides a study of representative texts of such authors as Goldoni, Vico, Parini, and Beccaria.

ITAL 439 *Romanticism in Italy* (3 credits)

Prerequisite: ITAL 311 or 366. This course examines the concept of Romanticism in Italy and its relation to Risorgimento. Emphasis is on representative works of Foscolo, Manzoni, and Leopardi. References are made to the role of leading political figures of the period.

ITAL 443 *Post-unification Italian Culture: From Verismo to Futurism*
(3 credits)

Prerequisite: ITAL 311 or 366. This course provides a study of the debate on the nature of Realism and the avant-garde in Italy in the late nineteenth and early twentieth centuries. Readings are taken from such authors as Verga, Carducci, D'Annunzio and Marinetti.

ITAL 445 *Literature and Culture in Fascist Italy* (3 credits)

Prerequisite: ITAL 311 or 366. This course explores the literary trends in Italy between the first and second World Wars within a historical and political context. It provides a study of representative works of such figures as Svevo, Pirandello, and Montale. Leading critical thinkers such as Croce and Gramsci are taken into consideration.

ITAL 446 *Cultural Expressions in Italy from Neo-Realism to the Present* (3 credits)

Prerequisite: ITAL 311 or 366. This course examines the debate on Neo-realism and looks at literary and cinematographic expressions. It also

deals with the *Neo-avanguardia* movement and questions of gender and post-modernism. Emphasis is on Calvino, Sciascia, Fellini, Antonioni, and Eco. References are also made to the social and political reality of contemporary Italy.

ITAL 450 *Feminist Discourse in Italy*
(3 credits)

Prerequisite: ITAL 311 or 366. This course studies the question of gender as a concept and traces its presence within the Italian cultural tradition from the Renaissance to the present. Representative works of figures such as Franco, Marinelli, de Fonseca Pimentel, Deledda, Aleramo, and Maraini are studied.

ITAL 461 *History of the Italian Language I* (3 credits)

Prerequisite: ITAL 301. This course examines the history of the Italian language from its origins to the end of the sixteenth century through the study of representative texts. Attention is given to other Romance languages.

ITAL 462 *History of the Italian Language II* (3 credits)

Prerequisite: ITAL 301. This course examines the history of the Italian language from the beginning of the seventeenth century to the present day through the study of representative texts. Attention is given to other Romance languages.

ITAL 480 *Tutorial I* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 481 *Tutorial II* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 482 *Tutorial III* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 483 *Tutorial IV* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 490 *Honours Essay Tutorial*
(3 credits)

Prerequisite: Honours status. This course provides the Honours candidate with the opportunity to

prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the Italian section.

ITAL 498 *Advanced Topics in Italian*
(3 credits)

ITAL 499 *Advanced Topics in Italian*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Spanish

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

SPAN 200 *Introductory Spanish: Intensive Course* (6 credits)

This course provides a comprehensive introduction to the Spanish language, completing the fundamental aspects of grammar in one term. This course covers the same material as SPAN 201 and 202.

NOTE: Students who have received credit for SPAN 201 or 202 or 210 or 211 may not take this course for credit.

SPAN 201 *Introductory Spanish I* (3 credits)
This course provides an introduction to the basic elements of Spanish for the student with no knowledge of the language.

NOTE: Students who have received credit for SPAN 200 or 210 or 211 may not take this course for credit.

SPAN 202 *Introductory Spanish II* (3 credits)

Prerequisite: SPAN 201. The objective of this course is to complete the study of fundamental aspects of Spanish grammar.

NOTE: Students who have received credit for SPAN 200 or 210 or 211 may not take this course for credit.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 240 AND HIGHER WILL BE CONDUCTED IN SPANISH.

SPAN 240 *Intermediate Spanish: Intensive Course* (6 credits)

Prerequisite: SPAN 200 or 202. This course provides a review of Spanish grammar in a single term and furnishes additional details not dealt with in the introductory courses. It covers the same material as SPAN 241 and 242. Practice is provided through readings, discussions, and composition.

NOTE: Students who have received credit for SPAN 241 or 242 or 250 or 251 may not take this course for credit.

SPAN 241 *Intermediate Spanish I*
(3 credits)

Prerequisite: SPAN 200 or 202. This course provides a review of Spanish grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.
NOTE: Students who have received credit for SPAN 240 or 250 or 251 may not take this course for credit.

SPAN 242 *Intermediate Spanish II*
(3 credits)

Prerequisite: SPAN 241. This course is a continuation of SPAN 241. It completes the review of the grammar and includes additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for SPAN 240 or 250 or 251 may not take this course for credit.

SPAN 298 *Special Topics in Spanish*
(3 credits)

SPAN 299 *Special Topics in Spanish*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SPAN 301 *Grammar and the Process of Writing I* (3 credits)

Prerequisite: SPAN 240 or 242. This course offers a practical analysis of the conventions that govern grammar, spelling, punctuation, and syntax in Peninsular and Latin-American Spanish. It also focuses on the means of identifying, analysing, and using effective stylistic resources in different forms of writing such as summaries, notes, journals, and short stories.

SPAN 302 *Grammar and the Process of Writing II* (3 credits)

Prerequisite: SPAN 301. This course continues the practical analysis of grammar and focuses on using effective stylistic resources and formal conventions in writing, especially for essays and related texts.

SPAN 303 *Critical Reading of Hispanic Texts* (3 credits)

Prerequisite: SPAN 240 or 242. This course offers a survey of the major rhetorical devices and methodological tools for the critical reading of literary and other texts, and for the production of well-founded and persuasive writing in Spanish. The course covers notions of narratology and poetics, as well as discourse analysis and critical thinking. Activities include close reading of Hispanic texts and practical work in research and documentation, as well as the presentation of well-organized, analytical prose.

NOTE: Students who have received credit for SPAN 304 may not take this course for credit.

SPAN 306 *Introduction to Translation*
(3 credits)

Prerequisite: SPAN 240 or 242. This course examines Spanish and English grammar in a comparative context in order to provide a sound basis for translation between the two languages. It also aims to develop lexical and semantic knowledge of the Spanish language through analysis of textual materials. Students translate short texts from a variety of fields such as literature, business, journalism, politics, and science. Translation is primarily from English to Spanish (some reference to French is included).

SPAN 307 *Translation Practice* (3 credits)

Prerequisite: SPAN 306. This course continues the examination of Spanish and English grammar in a practical context as a basis for translation between the two languages. It also enhances the students' lexical and semantic knowledge of the Spanish language through direct, practical experience in translation. Students translate texts from a variety of fields, with a particular emphasis on business, finance, tourism, journalism, and the arts. Translation is primarily from English to Spanish (some reference to French is included).

SPAN 308 *Spanish for Business* (3 credits)

Prerequisite: SPAN 240 or 242. This course is designed to give students a solid foundation in business vocabulary and basic business practices, as well as the cultural concepts necessary to enable them to function in the Spanish-speaking business world. Activities may include the elaboration of different types of business documents, oral group activities and simulations, and the development of strategies needed for comprehension through visual and/or aural material.

NOTE: Students who have received credit for this topic under an SPAN 398 number may not take this course for credit.

SPAN 310 *Conquest and Empire: Spanish Literature from the Twelfth to the Seventeenth Centuries*
(3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to medieval and early modern Spanish literature by examining the relationship between cultural manifestations and emergent narratives of Spanish national history. Students are also introduced to literary analysis and its relation to socio-cultural issues through activities that may include small group discussions, close readings, short analytical papers, and essay exams.

SPAN 311 *Crisis and Introspection: Spanish Literature from the Eighteenth to the Twenty-First Centuries* (3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to modern Spanish literature and examines the relationship between these cultural manifestations and Spain's difficult transition towards modernity, with special emphasis on the Generation of '98 and its role in the debates that

culminated in the Spanish Civil War. Students are also introduced to literary analysis and its relation to socio-cultural issues through activities that may include small group discussions, close readings, short analytical papers, and essay exams.

SPAN 320 *Defining Difference in Spanish America: Literature from 1500 to 1880* (3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to the richly varied texts of colonial Spanish America and the early independence era. It examines how from its very beginnings Spanish-American discourse attempts to distinguish itself from Peninsular traditions throughout the various cultural eras and within its socio-political contexts. Readings include letters, chronicles, poetry, and essays. Activities may include critical reading, oral discussions and presentations, summaries, and brief essays.

SPAN 321 *Identity and Independence in Spanish America: Literature from 1880 to the Present*
(3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to the literature of the period following independence. It examines how the literature defines Spanish-American identities in urban and rural perspectives, in different genres and genders, throughout the cultural eras of the period, and within its socio-political contexts. Readings include poetry, essays, short stories, and excerpts from novels. Activities may include critical reading, oral discussions and presentations, summaries, and brief essays.

SPAN 362 *Cultures of Mexico, the Central American Region, and the Spanish Caribbean* (3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to the cultural manifestations of the nations of these regions within an historical framework. Emphasis is on the interaction between the events that shape the area, the wide variety of cultures that arose there, and the forms of artistic endeavour through which the peoples express themselves. Mexico, Cuba, and Colombia are given special importance; the history and culture of the Dominican Republic, Venezuela, Puerto Rico, and the Central American countries are also highlighted. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 363 *Cultures of the Southern Cone and the Andean Region*
(3 credits)

Prerequisite: SPAN 240 or 242. This course introduces students to the cultural achievements of the nations of the region within an historical framework. Emphasis is on the interaction between the events that shape the area, the wide variety of cultures that arose there, and the forms

of artistic endeavour through which the many different peoples express themselves. Argentina, Peru, and Chile are given special importance; the history and culture of Uruguay, Ecuador, and Bolivia are also highlighted. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 365 *The History of Spanish Culture*
(3 credits)

Prerequisite: SPAN 240 or 242. This course examines important linguistic, literary, and artistic developments of Spanish culture as they relate to the invention, consolidation, and critique of a unique Spanish identity. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 398 *Special Topics in Spanish*
(3 credits)

SPAN 399 *Special Topics in Spanish*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GROUP A COURSES: *Literature and Society*
(SPAN 406-422 refer to Spain, 441-445 to Spanish America)

Literature and Society explores the way in which the literary discourses of Spain and Spanish America both reflect and shape society in a historical context. It is based mainly on the chronological study of genres in literature. This option is the base for the Honours program.

SPAN 406 *From Orality to Literacy in Medieval Spain (1100-1500)*
(3 credits)

Prerequisite: SPAN 301, 303, 310. This course examines the ways in which oral-popular discourses are appropriated by the representatives of "official" culture, as well as how emerging institutions fashion their message around a nascent concern with Hispanic identity in works from the late period of Spain's era of Reconquest. Topics of inquiry may include the social and political function of oral poetry, the importance of ritualistic cultural phenomena, the growing importance of vernacular literature, and the processes of canon formation.

SPAN 411 *Freedom and Containment in Spanish Golden Age Prose (1550-1700)* (3 credits)

Prerequisite: SPAN 301, 303, 310. This course considers a selection of narrative texts from the Spanish Golden Age in order to examine the relationship between the reading subject and an emergent official culture. Through close textual analysis and critical discussion of representative works by authors such as Cervantes, Quevedo,

and Zayas, students study and discuss literary and extra-literary issues representative of this period. Course topics may include theories of reader reception, the role of censorship, the construction of gender, and the creation of social types and anti-types.

SPAN 412 *Golden Age Drama and Poetry: Theatricality in Renaissance and Baroque Spain, 1500-1690*
(3 credits)

Prerequisite: SPAN 301, 303, 310. This course carries out a comparative study of the rhetorical strategies of literary and extra-literary representation in Golden Age Spain, and their role in the creation of an early modern subject of mass visual culture. Through close textual analysis and critical discussions of representative works by Spanish poets and playwrights such as Garcilaso, Lope, Góngora, Quevedo, Tirso, and Calderón, students examine a number of literary and theoretical topics. These may include the performative aspects of poetry, the literary uses of pictorial perspective, and the relationship between subjectivity and theatricality.

SPAN 416 *Reason and Romanticism in Modern Spain: 1789-1850*
(3 credits)

Prerequisite: SPAN 301, 303. This course examines the conflicting literary and cultural trends that mark Spain's difficult transition towards modernity. Through close textual analysis and critical discussions of representative texts by authors such as Larra, Espronceda, and Zorrilla, students consider a series of issues that may include the failure of rationalism in Spanish society, competing visions of Romanticism in Spanish literature, and Spain's relationship with Europe.

SPAN 417 *Towards Modernity in Spain: Cultural Manifestations of Liberalism and Tradition, 1840-1898* (3 credits)

Prerequisite: SPAN 301, 303. This course investigates the relationship between the literary and the philosophical and ideological debates that arose during Spain's problematic transition towards political and economic liberalization. Through close readings and critical discussions of works by authors such as Galdós, Pardo Bazán, Clarín, and Bécquer, students consider topics that may include reason and madness, Realism and Naturalism, feminism and "feminine" genres, and progressivism vs. traditionalism.

SPAN 419 *Cultural Inquiries and Modernity in Spain, 1898-1960*
(3 credits)

Prerequisite: SPAN 301, 303. This course examines artistic and cultural trends during one of the most dynamic and contradictory periods of Spanish history. Starting with the *Generación del 98* and covering a wide array of revolutionary and reactionary visions of artistic and cultural practices, this course considers themes that may include the emergence of film, the relationship

between art and ideology, national identity and nationalisms, art and film by Spanish women, and the culture of exile.

SPAN 422 *Spain in Transition: 1960 to the Present* (3 credits)

Prerequisite: SPAN 301, 303. This course examines the tremendous changes that have occurred in Spain in the last decades of the twentieth century through the study of several media of cultural expression such as film, literature, journalism, the plastic arts, and the Internet. Topics may include the use and misuse of history in nationalist discourse, the culture of exile, the recovery of lost/erased voices, and the changing role of women and the feminine in the Spanish imaginary.

SPAN 441 *Romanticism and the Construction of Identity in Spanish America, 1820-1890* (3 credits)

Prerequisite: SPAN 301, 303. This course examines Spanish-American literature and culture of the nineteenth century in terms of the efforts to define national character through discourses on nature, the peoples, history, and traditions. The relationship of these discourses with Romanticism, the role of the writer, and the image and function of the feminine are particularly examined. Students study representative works by authors such as Heredia, Sarmiento, Gómez de Avellaneda, and Hernández. Students are introduced to the formulation of critical discourse through a series of short essays and oral presentations.

SPAN 442 *Modernism: Modernity and Rebellion, Rupture and Innovation in Spanish-American Letters, 1880-1920* (3 credits)

Prerequisite: SPAN 301, 303. Through the study of representative literary and other cultural texts, as well as the critical debates of the era (such as those concerning industrialization, U.S. hegemony and feminism), this course examines the various phases in the development of a Spanish-American consciousness towards modernity and cultural autonomy. Students study representative works by authors such as Martí, Gutiérrez Nájera, Darío, Lugones, and some women authors of the period. Students are introduced to the formulation of critical discourse by writing a series of short essays and delivering oral presentations.

SPAN 443 *The Spanish-American "Boom" and its Predecessors, 1950-1980* (3 credits)

Prerequisite: SPAN 301, 303. This course examines a selection of Spanish-American novels and essays of the period between approximately 1950 and 1975, known as the *Boom*. Through close textual analysis and a study of critical debates, the course considers literary and extra-literary issues representative of this period, including *lo real maravilloso* and magical realism as Latin-American

specificities, the relationship between history and fiction, and the debate between regionalism and cosmopolitanism. Authors studied may include Carpentier, García Márquez, Puig and Allende. *NOTE: Students who have received credit for SPAN 424 may not take this course for credit.*

GROUP B COURSES:

***Expression and Culture* (SPAN 450-474)**

Expression and Culture explores and puts into practice the techniques and structures of different modes of expression in Hispanic cultures. It is primarily topics- or thematically based. This option is the base for the Specialization program.

SPAN 450 *The Short Narrative in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303. From its beginnings as an independent genre in the nineteenth century to the most recent minifiction, this course examines the short story in light of different theories of narratology, specifically as relating to the short narrative. Texts are taken from representative authors from either or both Spain and Spanish America, within their cultural context. Students are introduced to the formulation of critical discourse through a series of short essays and an oral presentation; students also write their own short fiction.

SPAN 451 *Dramatic Representations in Hispanic Cultures* (3 credits)

Prerequisite: SPAN 301, 303. This course introduces students to fundamental concepts in the study of Hispanic drama and film, as well as to wider issues of theatricality and performance. It deals with the cultural and historical relation between literature and the visual arts, and presents some basic tools and techniques of research and criticism as related to Hispanic theatre and cinema. The course may include student representations of scenes from plays studied. *NOTE: Students who have received credit for this topic under an SPAN 498 number may not take this course for credit.*

SPAN 453 *From Object to Subject: Women and Discourse in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303. This course introduces texts from different historical periods from various theoretical perspectives. Particular attention is given to theoretical perspectives pertinent to Spain and Spanish America. The function of gender in Hispanic discourse, representation of women, and strategies of expression in women writers are some of the topics that may be examined. *NOTE: Students who have received credit for SPAN 430 may not take this course for credit.*

SPAN 455 *Perspectives on the Teaching of Spanish* (3 credits)

Prerequisite: SPAN 301, 303; Honours status or permission of the Department. This course provides students with basic knowledge of and

structured practice in the principal approaches to the teaching of Spanish to speakers of other languages. Topics may include a selection of approaches to the teaching of Spanish, such as task-based learning, communicative methods, process writing, grammar for teachers of Spanish, the use of computer technology and Internet resources for the teaching of Spanish, the development of didactic material, as well as the incorporation of Hispanic cultural material. *NOTE: Students who have received credit for this topic under an SPAN 498 number may not take this course for credit.*

SPAN 461 *The History of the Spanish Language* (3 credits)

Prerequisite: SPAN 301, 303. This course examines the historical and cultural evolution of the Spanish language. Topics to be considered may include the phonological and morphological development of Vulgar Latin, the development of variants between Peninsular and Spanish-American expression, and the dialogic and conflictive nature of linguistic change. In-class and take-home activities may include the translation of medieval and early modern Spanish texts into their modern equivalents.

SPAN 464 *Current Issues in the Hispanic Cultures: Spanish America* (3 credits)

Prerequisite: SPAN 301; 362 or 363. This course explores current newsworthy events and affairs in the political, social, and cultural spheres of Spanish America as seen through various media sources such as newspapers, magazines, radio and television, and the Internet. It includes a systematic study of techniques of oral expression. As such, activities emphasize oral skills and may include team-based class work and presentations, brief summaries, journal, and oral exams. Format and content vary from year to year.

SPAN 465 *Current Issues in the Hispanic Cultures: Spain* (3 credits)

Prerequisite: SPAN 301, 365. This course explores current newsworthy events and affairs in the political, social, and cultural spheres of Spain as seen through various media sources such as newspapers, magazines, radio and television, and the Internet. It includes a systematic study of techniques of oral expression. As such, activities emphasize oral skills and may include team-based class work and presentations, brief summaries, journal, and oral exams. Format and content vary from year to year.

SPAN 467 *The Avant-Gardes in Spanish America and Spain and their Repercussions in the Arts* (3 credits)

Prerequisite: SPAN 301, 303. Starting from an introduction to major currents of the historical Avant-garde (1920-1940), such as Futurism, Cubism, Dadaism, and Surrealism, the course traces the impact of the avant-gardes through-

out twentieth-century Hispanic poetry and the visual arts. Students explore particular manifestations of these currents in the art and poetry of Spanish America (*Creacionismo* and *Negrismo*) and Spain (*la Generación del '27*). Emphasis is placed on the role of the artist-poet as engaged actor of radical change in all dimensions of social and political life.

SPAN 470 *Spanish-American Testimonio Discourse* (3 credits)

Prerequisite: SPAN 301, 303; 362 or 363. This course offers a comprehensive study of the struggle between subaltern voices and mainstream culture, as manifested in *testimonio* discourse. The study includes an examination of the controversy surrounding *testimonio* with respect to its status as a literary genre and the question of appropriation of marginalized voices. Texts may include journalistic prose, essay, biography, and oral manifestations of subaltern groups. Authors may include Burgos/Menchú, Barret/Montejo and Davis/Pablo.

NOTE: Students who have received credit for this topic under an SPAN 498 number may not take this course for credit.

SPAN 471 *The Art of Persuasion: the Hispanic Essay* (3 credits)

Prerequisite: SPAN 301, 303. This course examines the genre of essay writing in Spain and/or Spanish America. A concise historical overview traces the development of this genre to the present. The study of different types of rhetorical strategies, discourse, and objectives in essay writing focuses on contemporary texts. Students learn to develop their own skills towards the writing of effective persuasive prose.

NOTE: Students who have received credit for this topic under an SPAN 498 number may not take this course for credit.

SPAN 472 *Discourses of Discovery, Colonization, and Resistance in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303, 310. This course examines the colonial subject as s/he appears in early modern articulations of the imperial centre and its relation to the colonial periphery, as well as in the emerging centres of Spanish America. Through close textual analysis and critical discussions of representative works by Peninsular and Colonial authors such as Columbus, Las Casas, Sor Juana and el Inca Garcilaso, students investigate topics that may include the rhetorical and legal tropes of discovery and their construction of an abject "other", the historical conditions that inform the chronicles of conquest, and strategies of cultural resistance employed by *criollo* and Amerindian subjects.

SPAN 473 *Literary Translation in Spanish* (3 credits)

Prerequisite: SPAN 301, 303, 306. This course examines the history and principles of literary translation with reference to translation between

the Spanish- and English-speaking worlds. Literary translations both from Spanish to English and vice versa are analysed within a critical context, and students translate essays, short stories, and poetry into both languages. Equal attention is paid to Spanish and English stylistics. *NOTE: Students who have received credit for this topic under an SPAN 498 number may not take this course for credit.*

SPAN 474 Translation for Specific Fields
(3 credits)

Prerequisite: SPAN 301, 303, 306. This course concentrates on the technical and stylistic elements of translation of texts from a variety of fields such as business, journalism, tourism, telecommunications, and international trade. Material to be translated includes actual texts, and activities involve analysis of translation strategies and of terminological challenges pertinent to effective written communication in each domain. Translation is from both Spanish to English and English to Spanish.

SPAN 480 Tutorial I (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 481 Tutorial II (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 482 Tutorial III (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 483 Tutorial IV (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 490 Honours Essay Tutorial
(3 credits)

Prerequisite: Honours status. This course provides the Honours candidate with the opportunity to prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the Spanish section.

SPAN 491 Theory and Methods of Literary Analysis (3 credits)

Prerequisite: Honours status or permission of the Department. This course presents students with some of the fundamental concepts of contemporary critical theory and methods, as pertaining to the analysis of Hispanic texts. This course is complementary to SPAN 490. *NOTE: Students who have received credit for SPAN 403 may not take this course for credit.*

SPAN 495 Specialization Project (3 credits)

Prerequisite: 30 credits in the Specialization program. This course provides the Specialization student with the opportunity to complete a major research project chosen by the candidate in consultation with and under the supervision of a member of the faculty of the Spanish section.

SPAN 498 Advanced Topics in Spanish
(3 credits)

SPAN 499 Advanced Topics in Spanish
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Linguistics

LING 200 Introduction to Linguistic Science (3 credits)

This course provides an introduction to the principles of general linguistics for beginners in the field. There is an emphasis on synchronic linguistic analysis, with a brief examination of historical and comparative linguistics.

LING 222 Language and Mind: The Chomskyan Program (3 credits)

This course uses language as a tool to examine the workings of the human mind. It approaches the study of language from the perspective of generative grammar as developed by Noam Chomsky and his collaborators. It deals with patterns of linguistic structure, rather than content or meaning. The goal of this course is to develop an understanding of the field of cognitive science (the study of knowledge and the mind/brain) and determine how linguistics fits in with disciplines like the study of vision, auditory perception and reasoning.

NOTE: Students who have received credit for LINZ 222 or for this topic under a LING 398 number may not take this course for credit.

LING 298 Selected Topics in Linguistics
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LING 300 Sociolinguistics (3 credits)

A study of the beliefs, interrelationships, and values of societal groups as reflected in language. *NOTE: Students who have received credit for LINZ 300 may not take this course for credit.*

LING 315 Syntactic Theory (3 credits)

Prerequisite: LING 200. This course represents a survey of contemporary syntactic theory, with a focus on Government-Binding theory and its descendants. Phrase structure, movement, and the relevance of syntactic theory for theories of syntactic acquisition are considered.

NOTE: Students who have received credit for LING 400 may not take this course for credit.

LING 320 *Semantics* (3 credits)
 This course introduces the basic notions required for formal analysis of meaning within a theory of language. The central objective is the development of a system for the representation of the logical structure of natural language. Contemporary works in linguistic semantics are critically examined.

LING 330 *Sanskrit* (3 credits)
 Prerequisite: LING 200 previously or concurrently. This course provides an accelerated introduction to the fundamentals of Sanskrit grammar through the reading of texts, first in transliteration and later in devanāgarī. Particular attention is given to the language of the *Rig-Veda*, and its significance for the reconstruction of Proto-Indo-European.

LING 336 *Comparative Indo-European Linguistics* (3 credits)
 Prerequisite: LING 200. Through a comparative study of the phonology of the various branches of the Indo-European language family (Indo-Iranian, Hellenic, Italic, Germanic, Slavic, Baltic, etc.), this course familiarizes the student with the techniques used in linguistic reconstruction. Emphasis is given to the development and differentiation of languages through time.
NOTE: Students who have received credit for LING 431 may not take this course for credit.

LING 341 *Introduction to Romance Linguistics* (3 credits)
 A study of the modern Romance languages, especially French, Italian, and Spanish, and their development from Latin.

LING 353 *Psycholinguistics* (3 credits)
 Prerequisite: LING 200 or PSYC 200 previously or concurrently. This course treats current issues in the experimental evaluation of linguistic theories, presenting both methodological concerns and empirical results. Topics covered include sentence processing, speech perception, lexical access and language development.
NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 372 *Descriptive and Instrumental Phonetics* (3 credits)
 Description of speech sounds in articulatory terms. Identification and description of sounds that occur outside the Indo-European family of languages. Description of speech sounds as to their acoustic qualities: frequency, amplitude, pitch, stress. Interpretation of sound spectrograms.

LING 373 *Phonological Analysis* (3 credits)
 Prerequisite: LING 200 and/or 372, or permission of the Department. The fundamentals of distinctive-feature analysis as developed by Jakobson, Chomsky, and Halle. Theoretical concepts and notational techniques are emphasized. Extensive training in data analysis and rule writing.

LING 380 *Morphology* (3 credits)
 Prerequisite: LING 373. This course consists of a survey of linguistic morphology, the study of word structure, and the tools used to perform morphological analysis. The course also gives some consideration to the issues relating to a theory of morphology.
NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 398 *Selected Topics in Linguistics* (3 credits)
 Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LING 415 *Advanced Syntax* (3 credits)
 Prerequisite: LING 315. This course considers current developments in the field of syntactic theory and their application to phenomena such as control, movement out of islands and binding.
NOTE: Students may take this course twice for credit provided the subject matter is different.

LING 420 *Language Change* (3 credits)
 Prerequisite: LING 200. This course concentrates on the nature of language change, with an investigation into the relationship between theories of linguistic structure and theories of change. The theoretical foundations of contemporary methods in the study of language change are the central focus.
NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 421 *Non-Indo-European Structures* (3 credits)
 Prerequisite: LING 200, 373. This course is intended to give the student an in-depth acquaintance with the structure of a language which differs markedly from that of familiar Indo-European languages. The course involves working with a native speaker and/or from textual material.

LING 425 *Language Acquisition and Universal Grammar* (3 credits)
 Prerequisite: LING 373. This course presents a survey of theoretical and empirical issues in the study of first language (L1) acquisition by children. Particular attention is paid to the role of Universal Grammar and innateness in explaining L1 acquisition, as well as to the significance of fundamental theoretical notions such as the competence/performance distinction.
NOTE: Students who have received credit for this topic under a LING 498 number may not take this course for credit.

LING 429 *Interfaces in Linguistic Theory* (3 credits)
 Prerequisite: LING 373. This course presents, in considerable depth, current research on the formal relationships which hold between the modules of grammar, e.g. phonology-syntax,

or syntax-semantics. The general problem of interfaces, and their relationship to assumptions such as modularity, are discussed. The particular interface covered may vary from year to year.
NOTE: Students may take this course twice for credit provided the subject matter is different. Students who have received credit for a particular topic under a LING 498 number may not take this course for credit unless the subject matter is different.

LING 436 *Advanced Indo-European Studies* (3 credits)

Prerequisite: LING 336 previously or concurrently. Detailed study of the synchronic and diachronic grammars of one or more Indo-European dialects essential to the reconstruction of the proto-language. Extensive readings are undertaken in both original texts and in scholarly contributions to their elucidation. Emphasis is placed on current issues and research in the field.

LING 437 *Problems in Indo-European Comparative Grammar* (3 credits)

Prerequisite: LING 336 previously or concurrently. This course explores one or more areas of Indo-European comparative grammar of particular interest in current research. Extensive reading in the scholarly literature is undertaken with emphasis on the principles by which hypotheses in historical linguistics can be framed and the criteria for testing such hypotheses.

LING 446 *Comparative Grammar of Greek and Latin* (3 credits)

Prerequisite: LING 200 or CLAS 280 or 290. A study of the similarities and differences in the phonology and morphology of Ancient Greek and Latin. Some attention is also given to issues of syntax and the lexicon.

LING 447 *Mycenaean Greek* (3 credits)

Prerequisite: LING 200 or CLAS 280. Dating from the fourteenth to the twelfth century BCE, Mycenaean — the language of the Linear B tablets — is the earliest form of Greek attested. In this course, selected documents will be read, both in transliteration and in the Mycenaean syllabary, with attention both to linguistic and to cultural issues.
NOTE: Students who have received credit for this topic under a LING 498 number may not take this course for credit.

LING 456 *Homeric Greek* (3 credits)

Prerequisite: LING 200 or CLAS 280. An examination of the language of Homer, an artificial mixture of dialectal and diachronic variants, a *Kunstsprache*. Against the background of a study of the comparative and historical grammar of Greek and its development from Proto-Indo-European, the focus is on diachronic aspects of Homeric grammar and diction. Readings are principally from Books One and Three of the *Iliad*.

LING 457 *Archaic Latin and the Italic Dialects* (3 credits)

Prerequisite: LING 200 or CLAS 290. A study of inscriptions in archaic Latin and the ancient Italic dialects Oscan and Umbrian. Examination of the main features of phonology, morphology, syntax and the lexicon which distinguish Osco-Umbrian from Latin, with reference to their development from Proto-Indo-European.

LING 461 *Hittite* (3 credits)

Prerequisite: LING 330 or 336 previously or concurrently. The fundamentals of Hittite grammar are presented through the extensive reading of texts, both in transliteration and cuneiform. Considerable attention is given to problems of comparative grammar.

LING 473 *Advanced Phonology* (3 credits)

Prerequisite: LING 373. This course treats current issues in the theory of phonology, such as syllable structure, stress computation, vowel harmony and tonology. Critical readings from the current theoretical literature form the basis for discussion and study.

NOTE: Students who have received credit for this topic under a LING 498 number may not take this course for credit.

LING 475 *History of Linguistics* (3 credits)

Prerequisite: LING 373. This course examines the history of linguistics, with a particular focus on the structuralist predecessors of contemporary linguistic theorists. Both North American and European schools of thought are considered. Extensive reading of fundamental texts is required.

NOTE: Students who have received credit for this topic under a LING 498 number may not take this course for credit.

LING 490 *Research Seminar in Linguistics* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity for advanced research in linguistics under the direct supervision of a faculty member. Participants will write a theoretical or experimental paper and present their findings for discussion with fellow students.

NOTE: Students may take this course only once for credit.

LING 495 *Tutorial* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

NOTE: Students may take this course twice for credit provided the subject matter is different.

LING 498 *Advanced Topics in Linguistics* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NON-PROGRAM COURSES:

Hebrew

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

HEBR 210 *Introductory Course in Hebrew* (6 credits)

A beginners' course in Hebrew, with readings of classical and modern texts.

NOTE: Students who have taken Hebrew at the Cegep level, or whose schooling has been conducted in Hebrew, will not be admitted to this course.

HEBR 241 *Intermediate Hebrew I* (3 credits)

Prerequisite: HEBR 210 or permission of the Department. This course includes a comprehensive review of Hebrew grammar and syntax and deals with additional details not covered in the introductory course. Practice is provided through compositions and readings of classical and modern Hebrew texts.

NOTE: Students who have received credit for HEBR 250 may not take this course for credit.

HEBR 242 *Intermediate Hebrew II* (3 credits)

Prerequisite: HEBR 241 or permission of the Department. This course continues the comprehensive review of Hebrew grammar and syntax, and deals with additional details not covered in the introductory course. Practice is provided through compositions and readings of classical and modern Hebrew texts.

NOTE: Students who have received credit for HEBR 250 may not take this course for credit.

HEBR 310 *Topics in Hebrew Literature* (3 credits)

Topics for this course will vary; possibilities may include modern Hebrew literature, masterpieces and genres in Hebrew literature, and others. This course is taught in English.

NOTE: Please see the Undergraduate Class Schedule for details.

Modern Languages

The following courses give instruction in languages and cultures not included in any of the Department's programs.

MGRK 290 *Modern Greek* (6 credits)

This course provides an introduction to the basic elements of modern Greek for the student with no knowledge of the language.

NOTE: Students who have received credit for this topic under an MODL 399 number may not take this course for credit.

MGRK 398 *Special Topics in Modern Greek* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MIRI 290 *Modern Irish* (6 credits)

This course provides an introduction to the basic elements of modern Irish for the student with no knowledge of the language.

NOTE: Students who have received credit for this topic under an MODL 399 number may not take this course for credit.

MIRI 398 *Special Topics in Modern Irish* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 298 *Special Topics in Modern Languages* (3 credits)

MODL 299 *Special Topics in Modern Languages* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 398 *Special Topics in Modern Languages* (3 credits)

MODL 399 *Special Topics in Modern Languages* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 498 *Advanced Topics in Modern Languages* (3 credits)

MODL 499 *Advanced Topics in Modern Languages* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MRUS 290 *Russian* (6 credits)

This course provides an introduction to the basic elements of Russian for the student with no knowledge of the language.

NOTE: Students who have received credit for RUSS 330 may not take this course for credit.

MRUS 398 *Special Topics in Russian* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.070

COMMUNICATION STUDIES

Faculty	<p><i>Interim Chair</i> MARTIN ALLOR, <i>Professor</i></p> <p><i>Distinguished Professors Emeriti</i> JOHN BUELL JOHN E. O'BRIEN, s.j.</p> <p><i>Professors</i> CHARLES ACLAND WILLIAM BUXTON MAURICE CHARLAND NIKOS METALLINOS</p> <p><i>Associate Professors</i> MONIKA KIN GAGNON W. LAMBERT GARDINER RICHARD HANCOX</p>	<p>YASMIN JIWANI ANDRA McCARTNEY DENNIS MURPHY CHANTAL NADEAU LORNA ROTH KIM SAWCHUK LESLIE SHADE RAE STASESON HAL THWAITES PETER C. VAN WYCK</p> <p><i>Assistant Professors</i> ELIZABETH MILLER TIMOTHY SCHWAB MATTHEW SOAR</p>
Location	<p><i>Loyola Campus</i> Communication Studies and Journalism Building, Room: CJ 3.230 514-848-2424 ext. 2555</p>	
Department Objectives	<p>The Department of Communication Studies takes a broad approach to the study of media and communication. Its undergraduate programs provide students with the analytical, critical, and creative skills necessary in a communication- and information-rich world.</p>	
Facilities	<p>The Department provides the necessary equipment and facilities to accommodate students in laboratory courses. These include shooting studios, field production equipment for video and film (digital and 16mm), editing suites for video and film, digital sound facilities (production and post-production), and intermedia laboratories. The Learning Centre houses audio, film, slide, video, and computer technology for independent study and classroom use.</p>	
Department Admission Requirements	<p>The Department of Communication Studies has distinct admission procedures for each of its programs, in addition to the normal admission process of Concordia University. The Department is prepared to receive applications as early as January. Interested candidates should obtain information about admission requirements by visiting the Department's website at http://artsandscience.concordia.ca/comm/.</p> <p><i>Graduate Work in Communication Studies</i> The Department offers a one-year diploma program for students who have completed their undergraduate degree in another field and who desire a concentrated introduction to Communication Studies. It offers an MA in Media Studies for those with an undergraduate degree in Communication Studies or a cognate field. A PhD in Communications is offered jointly with Université de Montréal and UQAM. For details, please refer to the School of Graduate Studies Calendar or contact the Department.</p>	
Programs	<p><i>Students are responsible for satisfying their particular degree requirements.</i> <i>The superscript indicates credit value.</i></p> <p>The Department offers four programs of study, including one offered jointly with Journalism.</p> <ol style="list-style-type: none"> 1. <i>BA Specialization in Communication Studies</i>: This program consists of 60 Communication Studies credits with the remaining elective credits drawn from outside the Department. It provides students with training in a variety of media and an in-depth understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication. 2. <i>BA Major in Communication Studies</i>: This program consists of 42 credits in Communication Studies with the remaining elective credits drawn from outside the Department. It provides students with training in a variety of media and an understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication. 	

3. *BA Specialization in Communication and Journalism*: This program consists of 60 credits in Communication Studies and Journalism with the remaining elective credits drawn from outside these departments. It provides students with training in journalistic practice and a general understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication.
4. *BA Major in Communication and Cultural Studies*: This program consists of 42 credits in Communication Studies with the remaining elective credits drawn from outside the Department. It offers a strong theoretical and critical understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication. It does not offer media production.

Elective credits are understood as courses taken in other departments or Faculties of the University. Credits in Communication Studies or Journalism, or in the Mel Hoppenheim School of Cinema may not be used in lieu of electives.

200-level courses are normally taken in first year, 300-level courses in second year, 400-level courses in third year.

Written work may be required in English for courses in Journalism; please consult the Department.

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 - Programs and Admission Requirements - Profiles).

60 BA Specialization in Communication Studies	6 Chosen from COMS 352 ³ , 357 ³ , 367 ³ , 368 ³ , 369 ³ , 372 ³ <i>Stage III</i> 3 COMS 425 ³ 18 Chosen from the list of Studies Courses, with at least nine credits at the 400 level
18 COMS 210 ³ , 220 ³ , 240 ³ , 274 ³ , 276 ³ , 284 ³ 6 Chosen from COMS 352 ³ , 357 ³ , 367 ³ , 368 ³ , 369 ³ , 372 ³ 6-18 Chosen from the list of Practicum Courses 18-30 Chosen from the list of Studies Courses, with at least 12 credits at the 400 level	60 BA Specialization in Communication and Journalism <i>NOTE: Students must meet the admission requirements of both the Departments of Communication Studies and Journalism.</i>
42 BA Major in Communication Studies 18 COMS 210 ³ , 220 ³ , 240 ³ , 274 ³ , 276 ³ , 284 ³ 6 Chosen from COMS 352 ³ , 357 ³ , 367 ³ , 368 ³ , 369 ³ , 372 ³ 6-12 Chosen from the list of Practicum Courses 6-12 Chosen from the list of Studies Courses, with at least six credits at the 400 level	<i>Courses in Communication Studies (30 credits)</i> 9 COMS 210 ³ , 220 ³ , 240 ³ 6 Chosen from COMS 352 ³ , 357 ³ , 367 ³ , 368 ³ , 369 ³ , 372 ³ 15 Chosen from the list of Studies Courses, with at least nine credits at the 400 level
<i>NOTE: Students may not take more than one Practicum course in any one term at the 300 or 400 level.</i>	<i>Courses in Journalism (30 credits)</i> 21 JOUR 200 ³ , 201 ⁶ , 205 ³ , 316 ³ , 319 ³ , 444 ³ 3 JOUR 210 ³ or 215 ³ 6 Chosen from JOUR 320 ³ , 332 ³ , 442 ³ , 463 ³
42 BA Major in Communication and Cultural Studies <i>Stage I</i> 12 COMS 210 ³ , 220 ³ , 225 ³ , 240 ³ <i>Stage II</i> 3 COMS 325 ³	

Practicum Courses

Practicum courses in the Department focus on the development of creative media practices within the context of Communication Studies research based in the humanities and social sciences. These courses include weekly lectures, readings, critical analysis, workshops, seminars, screenings, and presentations. First-year courses include an average of three hours of creative laboratories per week. Second- and third-year courses include an average of eight hours of creative labs and/or field work per week.

COMS 274	Communication Media: Intermedia I (3 credits)
COMS 276	Communication Media: Sound I (3 credits)
COMS 284	Communication Media: Film and Video I (3 credits)
COMS 374	Communication Media: Intermedia II (6 credits)
COMS 376	Communication Media: Sound II (6 credits)
COMS 383	Communication Media: Film II (6 credits)
COMS 385	Communication Media: Video II (6 credits)
COMS 393	Communication Media: Special Topics (3 credits)

COMS 474	Communication Media: Intermedia III (6 credits)
COMS 476	Communication Media: Sound III (6 credits)
COMS 483	Communication Media: Film III (6 credits)
COMS 485	Communication Media: Video III (6 credits)
COMS 493	Communication Media: Advanced Topics (3 credits)

Studies Courses

Studies courses in the Department offer theoretical and critical understandings of social, cultural, formal, and other aspects of human communication and media. These courses may include weekly lectures, readings, critical analyses, seminars, screenings, and presentations.

COMS 210	Media Criticism (3 credits)
COMS 220	History of Communication and Media (3 credits)
COMS 225	Media Institutions and Policies (3 credits)
COMS 240	Communication Theory (3 credits)
COMS 301	Selected Topics in National Cinemas (3 credits)
COMS 304	Selected Topics in Film Studies (3 credits)
COMS 307	Scriptwriting for Media (3 credits)
COMS 308	Selected Topics in Video (3 credits)
COMS 309	Studies in Documentary (3 credits)
COMS 310	Media Genres (3 credits)
COMS 319	Media Literacy (3 credits)
COMS 324	Communication Analysis of Environment (3 credits)
COMS 325	Approaches to Communication Research (3 credits)
COMS 352	Media Policy in Canada (3 credits)
COMS 354	Youth and Media (3 credits)
COMS 355	Media and New Technology (3 credits)
COMS 357	Media and Critical Theory (3 credits)
COMS 360	Mass Communication (3 credits)
COMS 361	Propaganda (3 credits)
COMS 362	Psychology of Communication (3 credits)
COMS 365	History of Sound Recording (3 credits)
COMS 367	Media and Cultural Context (3 credits)
COMS 368	Media and Gender (3 credits)
COMS 369	Visual Communication and Culture (3 credits)
COMS 370	Advertising and the Consumer Culture (3 credits)
COMS 371	Public Relations: Principles and Problems (3 credits)
COMS 372	Theories of Public Discourse (3 credits)
COMS 373	Topics in Media and Cultural History (3 credits)
COMS 398	Selected Topics in Communication Studies (3 credits)
COMS 399	Selected Topics in Communication Studies (6 credits)
COMS 407	Advanced Scriptwriting for Media (3 credits)
COMS 410	Acoustic Communication and Design (3 credits)
COMS 411	Sexuality and Public Discourse (3 credits)
COMS 412	Discourses of Dissent (3 credits)
COMS 413	Cultures of Production (3 credits)
COMS 414	Production Administration (3 credits)
COMS 415	Advanced Topics in the Photographic Image (3 credits)
COMS 416	Film Criticism (3 credits)
COMS 418	Cultures of Globalization (3 credits)
COMS 419	Communications and Indigenous Peoples (3 credits)
COMS 420	Reception Studies (3 credits)
COMS 421	Communicative Performances and Interventions (3 credits)
COMS 422	Perspectives on the Information Society (3 credits)
COMS 423	Media Art and Aesthetics (3 credits)
COMS 424	Alternative Media (3 credits)
COMS 425	Advanced Seminar in Cultural Studies (3 credits)
COMS 426	Television Studies (3 credits)
COMS 434	Advanced Topics in Film Studies (3 credits)
COMS 435	Advanced Topics in Documentary Film and Video (3 credits)
COMS 437	Media Forecast (3 credits)
COMS 453	Communication Ethics (3 credits)
COMS 460	Political Communication (3 credits)
COMS 461	Organizational Communication (3 credits)
COMS 462	Communication, Culture and Popular Art (3 credits)
COMS 463	Semiotics (3 credits)

COMS 464	Race, Ethnicity and Media (3 credits)
COMS 465	Rhetoric and Communication (3 credits)
COMS 468	Communications, Development and Colonialism (3 credits)
COMS 472	Communication Technologies and Gender (3 credits)
COMS 473	International Communication (3 credits)
COMS 494	Communication Studies Apprenticeship I (3 credits)
COMS 495	Communication Studies Apprenticeship II (3 credits)
COMS 496	Directed Study I (3 credits)
COMS 497	Directed Study II (3 credits)
COMS 498	Advanced Topics in Communication Studies (3 credits)
COMS 499	Advanced Topics in Communication Studies (6 credits)

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses, unless otherwise indicated, are open to students who have successfully completed 24 university credits or who have received permission from the Department.
- (2) 400-level courses, unless otherwise indicated, are open to students who have successfully completed 48 university credits or who have received permission from the Department.

COMS 210 *Media Criticism* (3 credits)
Prerequisite: Registration in a Communication Studies program. Through lectures, discussions, readings, and critical analyses, this course introduces students to the major schools and practices of media criticism. The course articulates the relationships between formal, aesthetic, representational, and sensory elements of media texts and discourses.

COMS 220 *History of Communication and Media* (3 credits)
Prerequisite: Registration in a Communication Studies program. This course examines communication and media from a comparative and historical perspective. Topics include the transition from orality to literacy, the print revolution, the rise of imaging technologies, and the emergence of modern publics, nations, and global media systems. Assignments introduce methods of historical research.

COMS 225 *Media Institutions and Policies* (3 credits)
Prerequisite: Registration in Communication and Cultural Studies Major. This course introduces students to the analysis of the institutional, political, and economic forces that have shaped the development of media during the twentieth century. Attention is given to the ownership structures, corporate practices, and state policy interventions affecting media institutions in both the public and private sectors. A particular focus is given to the interrelations between Cultural, Multicultural, and Communication Policy interventions.
NOTE: Students who have received credit for COMS 326 may not take this course for credit.

COMS 240 *Communication Theory* (3 credits)
Prerequisite: Registration in a Communication Studies program. Through lectures, discussions, and selected readings from the works of key

theoreticians, this course introduces students to major approaches to the understanding of the process of communication.

COMS 274 *Communication Media: Intermedia I* (3 credits)
Prerequisite: Registration in a Major or Specialization in Communication Studies. This course provides an introduction to new and developing digital technologies (primarily computer-based media) through historical, theoretical, and critical perspectives on media, culture, and society. This includes basic concepts in software operating systems, communication design, and digital media creation.
NOTE: Students who have received credit for COMS 256 may not take this course for credit.

COMS 276 *Communication Media: Sound I* (3 credits)
Prerequisite: Registration in the Major or Specialization in Communication Studies. This course introduces students to acoustic, analog, and digital components of audio systems. Students explore the communicational and aesthetic characteristics of sound. Through practical exercises students learn how to structure sound into imaginative aural forms across various media.
NOTE: Students who have received credit for COMS 278 may not take this course for credit.

COMS 284 *Communication Media: Film and Video I* (3 credits)
Prerequisite: Registration in the Major or Specialization in Communication Studies. This course provides a foundation in the creative, critical, and technical aspects of 16mm film and digital video production, including an introduction to non-linear editing software. Through collaborative assignments, students discover the shared and distinct language of each medium.
NOTE: Students who have received credit for COMS 280 and 282 may not take this course for credit.

COMS 298 *Selected Topics in Communication Studies*
(3 credits)

COMS 299 *Selected Topics in Communication Studies*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

COMS 301 *Selected Topics in National Cinemas* (3 credits)

Prerequisite: See N.B. number (1). This course focuses on selected national cinemas. The analytic perspective of the course varies but may encompass such issues as cultural contexts; aesthetic conventions; economic and policy constraints; and the history of canons and their renewals. Specific topics for this course will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for this topic under a COMS 303 number may not take this course for credit.

COMS 304 *Selected Topics in Film Studies*
(3 credits)

Prerequisite: See N.B. number (1). The topic of this course varies but may include such issues as film theories; the political economy of cinema; the analysis of particular periods in film history; the analysis of the films of particular directors and/or producers; film policies, or the relations between film, video, and television. Specific topics for this course will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for this topic under a COMS 302 number may not take this course for credit.

Communication Studies students may take no more than six credits from the Mel Hoppenheim School of Cinema in the Faculty of Fine Arts.

COMS 307 *Scriptwriting for Media*
(3 credits)

Prerequisite: See N.B. number (1); registration in a Major or Specialization in Communication Studies; submission of a sample of creative writing by June 30 and subsequent approval by the instructor. This course is designed to provide knowledge of and practice in the forms and formats of scripts for media. Topics include the anatomy of a script, the relation between audio and visual elements, and the specificity of particular narrative and non-narrative genres. Emphasis is placed upon formal structures, such as story construction and plot development, character and dialogue, tension, conflict, resolution, and harmony.
NOTE: Students who have received credit for COMS 305 or 330 may not take this course for credit.

COMS 308 *Selected Topics in Video*
(3 credits)

Prerequisite: See N.B. number (1). This course investigates a variety of video practices from the 1960s to present. These practices range from video as a political tool to video art and installation. Students gain an understanding of the critical and creative uses of video as a tool for communication and change.

COMS 309 *Studies in Documentary*
(3 credits)

Prerequisite: See N.B. number (1). This course offers a survey of documentary genres in various media. Topics include the characteristic styles and forms of documentary, the function of documentary, and its relationship to truth and knowledge. The course consists of lectures, screenings, readings, critique, and discussion.
NOTE: Students who have received credit for COMS 306 and 331 may not take this course for credit.

COMS 310 *Media Genres* (3 credits)

Prerequisite: See N.B. number (1). This course presents the concept of genre as a framework for the study of media. Topics may include the history of development of genre theory, the distinctive fictive and non-fictive genres of particular media, and the analysis of emergent or hybrid genres.

COMS 319 *Media Literacy* (3 credits)

Prerequisite: See N.B. number (1). This course provides students with an overview of the fundamental principles governing visual media, in particular video, film, and computerized images. Emphasis is placed on the techniques applied in the construction of media images and particular messages. These media and media products are examined according to the criteria taken from perceptual, cognitive, and aesthetic theories of visual communication.
NOTE: Students who have received credit for this topic under a COMS 398 number may not take this course for credit.

COMS 324 *Communication Analysis of Environment* (3 credits)

Prerequisite: See N.B. number (1). This course analyses communicational aspects of various sites such as museums, galleries, exhibitions, countrysides, landscapes, city streets, highways, department stores, and churches. These analyses are conducted from perspectives such as film locations work, interpretive writing, cultural studies, and soundscape research. Students take part in individual and group analyses of Montreal locations. Lectures, tutorials, and workshops.

COMS 325 *Approaches to Communication Research* (3 credits)

Prerequisite: Registration in Communication and Cultural Studies Major; COMS 225. This course introduces students to the logics of inquiry of the major research approaches used within Communication and Cultural Studies.

It familiarizes students with the formation of research questions, the choice of appropriate methodological tools, and the interpretation and reporting of research findings. There is a particular focus on qualitative approaches to field research and discourse and textual analysis.

COMS 352 *Media Policy in Canada*
(3 credits)

Prerequisite: See N.B. number (1). This course acquaints the student with the historical development of media policy in Canada. It examines the government regulation of media as well as the strategies that have been put in place to foster and guide the development of media and cultural industries. It also considers the present state of broadcasting, telecommunications, and Internet policies in Canada, focusing on current problems and exploring alternative solutions.

COMS 354 *Youth and Media* (3 credits)

Prerequisite: See N.B. number (1). This course explores the forms of communication that have developed between media and youth, including children and adolescents. Topical areas include future policies and planning in the light of developmental needs, ethical parameters, and experiments in creative empowerment.

COMS 355 *Media and New Technology*
(3 credits)

Prerequisite: See N.B. number (1). This course examines the applications of computers in the field of communications from conceptual, theoretical, and practical perspectives. Analog and digital representation, transmission, storage, and processing of visual and aural information are discussed.

COMS 357 *Media and Critical Theory*
(3 credits)

Prerequisite: See N.B. number (1). This course focuses on key authors and readings in critical theory, including the work of the Frankfurt School, British Cultural Studies, structuralism, post-structuralism, and contemporary continental philosophy. A central concern is to understand the nature of power in the modern media environment.

COMS 360 *Mass Communication* (3 credits)

The course examines the nature and forms of mass communication, the social sources and uses of mass communication, its psychology, audiences, and effects. The ethics of mass communication are also discussed. Through guest lecturers from the various media and readings of contemporary analyses/critiques, issues such as media ownership and access, government and self-regulation, technological implications, media accountability, etc., are raised.
NOTE: Students who have received credit for COMZ 360 may not take this course for credit.

COMS 361 *Propaganda* (3 credits)

Prerequisite: See N.B. number (1). The aim of this course is to recognize the orchestration of the

elements of propaganda in media, and to develop the means to deal with it. Course methodology includes lectures, discussions, and projects.

COMS 362 *Psychology of Communication*
(3 credits)

Prerequisite: See N.B. number (1). The objectives of the course are to provide the learner with: 1) an overview of psychological processes active in the communicative act; 2) the opportunity to explore a single media area in depth, either independently or in a small group. Through a variety of formats, topic areas such as the following are explored: perception and information processing, language development, areas of para-psychology related to communication, influences on attitude/behaviour, verbal/non-verbal codes, and meaning.

COMS 365 *History of Sound Recording*
(3 credits)

Prerequisite: See N.B. number (1). This course traces the technological development of sound recording and establishes the historical context and the social and economic conditions in which this development has occurred. The evolution of studio recording practices, the structure of the music industry and its global operations, changes in the production and consumption of music, and changes in the role of music as a form of cultural communication are examined. Attention is also given to sound recording practices in cinema, radio, television and digital media.

COMS 367 *Media and Cultural Context*
(3 credits)

Prerequisite: See N.B. number (1). This course examines the contested notions of culture and diversity as they relate to interpersonal and mediated communication. It focuses on ways in which different cultural communities critique and access a range of cultural forms, on issues and challenges of cross-cultural communications, and on media representational practices, challenges, and problematics.

COMS 368 *Media and Gender* (3 credits)

Prerequisite: See N.B. number (1). This course investigates how sex and gender are represented in and by the media. The course examines sexuality, sexism, and theories of gender through a critical examination of contemporary media topics.

COMS 369 *Visual Communication and Culture* (3 credits)

Prerequisite: See N.B. number (1). This course introduces the basic principles of visual forms of communication, and considers the relationship of visual and verbal components within media messages. It also presents various modes of visual communication, considers their place within cultural understandings of representation, and examines the place of the visual within contemporary culture.

COMS 370 *Advertising and the Consumer Culture* (3 credits)

Prerequisite: See N.B. number (1). This course

critically examines the place of advertising in contemporary society. Topics may include the analysis of communication strategies, the construction of desire, the significance of advertising to the production and circulation of commodities, and the role of advertising and consumption in the construction of social identity.
NOTE: Students who have received credit for COMS 470 may not take this course for credit.

COMS 371 *Public Relations: Principles and Problems* (3 credits)

Prerequisite: See N.B. number (1). This course considers the principles and responsibilities of public relations, and critically examines specific problems and the role of media choices and practices in effecting solutions.
NOTE: Students who have received credit for COMS 471 may not take this course for credit.

COMS 372 *Theories of Public Discourse* (3 credits)

Prerequisite: See N.B. number (1). This course presents a variety of theoretical frameworks that inform the analysis of public communication. Emphasis is placed on cultural, political, and ideological interpretations. Concepts presented are drawn from a number of traditions including rhetoric, hermeneutics, post-structuralism, psychoanalysis, semiotics, and deconstruction.

COMS 373 *Topics in Media and Cultural History* (3 credits)

Prerequisite: See N.B. number (1). This course offers an in-depth examination of specific periods or issues in media and cultural history. Selected topics focus on the development of media forms or cultural practices, as well as their social and political consequences. Historiographic research methods and theories are addressed.

COMS 374 *Communication Media: Intermedia II* (6 credits)

Prerequisite: COMS 274; permission of the Department. This course continues the exploration of concepts in digital communications, primarily computer-based media, and their application to communication design and media production. The course involves historical, theoretical, and critical reflection, a variety of digital production exercises, and intermedia projects.
NOTE: Students who have received credit for this topic under a COMS 399 number may not take this course for credit.

COMS 376 *Communication Media: Sound II* (6 credits)

Prerequisite: COMS 276; permission of the Department. This course explores acoustic communication, focusing on audio production techniques associated with various media, including radio, film, video, television, music recording, and intermedia. Students develop technical skills in sound creation and a critical awareness of the social and historical contexts of sound production

and reception.

NOTE: Students who have received credit for COMS 378 may not take this course for credit.

COMS 383 *Communication Media: Film II* (6 credits)

Prerequisite: COMS 284; permission of the Department. This intermediate course focuses on the aesthetic, theoretical, practical, and creative aspects of communication in cinema. Students shoot 16mm film, with post-production on digital video. Innovative approaches to technical and financial constraints, to required lengths and delivery dates, are emphasized.
NOTE: Students who have received credit for COMS 381 may not take this course for credit.

COMS 385 *Communication Media: Video II* (6 credits)

Prerequisite: COMS 284; permission of the Department. This course explores aesthetic, critical, and theoretical issues through the development of artistic voice, concept, and audience. Students develop collaborative projects that use a range of visual and aural strategies. Workshops emphasize technical training in camera, sound, lighting, and editing.
NOTE: Students who have received credit for COMS 387 may not take this course for credit.

COMS 393 *Communication Media: Special Topics* (3 credits)

Prerequisite: COMS 274, 276 or 284; submission of a portfolio and project proposal to instructor and permission of the Department. This course involves the development and creation of specialized projects in selected media genres and forms. Emphasis is placed upon conception, design, and execution of media works. Choice of media and types of forms and genres vary from year to year. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for this topic under COMS 379 or 380 may not take this course for credit.

COMS 398 *Selected Topics in Communication Studies* (3 credits)

COMS 399 *Selected Topics in Communication Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

COMS 407 *Advanced Scriptwriting for Media* (3 credits)

Prerequisite: See N.B. number (2); COMS 307; submission of a sample of creative writing and subsequent approval by the instructor. This course provides an in-depth approach to writing for specific media. Emphasis is placed upon

structure, storytelling, research, and the interplay of character and action. Different paradigms for both fiction and non-fiction are considered.

NOTE: Students who have received credit for COMS 305 or 330 may not take this course for credit.

COMS 410 *Acoustic Communication and Design* (3 credits)

Prerequisite: See N.B. number (2). This course investigates contemporary theories of acoustic communication and design, such as Attali's concept of noise, Schaeffer's theory of the sound object, Schafer's concept of soundscape, Chion's cinema for the ear, and Augoyard's repertoire of sound effects. Students engage in critical analysis of selected sound texts from various media.

COMS 411 *Sexuality and Public Discourse* (3 credits)

Prerequisite: See N.B. number (2). This course analyses and explores the ways sexuality circulates in and as public discourses. Through a variety of conceptual formations and critical conceptualizations of "the public" and "sexuality", this course analyses conceptually and critically how sexuality and the notion of the public are mutually constitutive. The seminar is interdisciplinary and draws upon works in feminist studies, queer theory, political philosophy, history, cultural studies, and communication theory.

COMS 412 *Discourses of Dissent* (3 credits)

Prerequisite: See N.B. number (2). This course examines the forms and tactics of public discourses directed toward social change. Forms of public discourse that may be considered include speech, images, audiovisual works, as well as Web-based sites or forms of communication. Emphasis is placed upon political protest, conflict and controversy, and mobilization. Themes explored include the development of speaking positions, the use of unconventional tactics, and the appropriation or rejection of received values.

COMS 413 *Cultures of Production* (3 credits)

Prerequisite: See N.B. number (2). Drawing on a range of recent field studies exploring the creative workplace (e.g. television production, the fashion industry, ad agencies, graphic design companies, the music business), this course frames commercial cultural production as a site of active agency, negotiation, and constraint through readings, discussion, and the design and execution of field research projects.

COMS 414 *Production Administration* (3 credits)

Prerequisite: See N.B. number (2). This course focuses on the language, skills, and strategies necessary for producing media projects and events. Administration, organization, permits and permissions, fundraising, liability and contracts,

team-building, distribution and writing are just a few of the areas that are examined as students learn the skills necessary to be a producer.

COMS 415 *Advanced Topics in the Photographic Image* (3 credits)

Prerequisite: See N.B. number (2). This course explores the themes and concerns associated with particular photographic practices. Through class discussion, visual materials, readings, and writing projects, students develop a critical understanding of the history, language, and aesthetics of the photographic image.

COMS 416 *Film Criticism* (3 credits)

Prerequisite: See N.B. number (2). This course provides an introduction to the assumptions, methodologies, and vocabularies implicit in important schools of popular and academic film criticism.

COMS 418 *Cultures of Globalization* (3 credits)

Prerequisite: See N.B. number (2). This course examines the significance of communication technologies to the process of globalization, which has increased and accelerated the movement of people and commodities across the world. The resulting transnational networks of cultural, economic, political, and social linkages and alliances are considered, as is the role of media in engendering new forms of community and identity.

COMS 419 *Communications and Indigenous Peoples* (3 credits)

Prerequisite: See N.B. number (2). Focusing on Canadian First Peoples territories in the North and South, as well as selected circumpolar regions, such as parts of Australia and other areas of the world inhabited by indigenous peoples, this course examines from a global perspective the historical, theoretical, and cross-cultural content and contexts of aboriginal media financing, audience research, product development, distribution issues, and policy formation. Broadcasting, print, and digital media case studies and materials are central components.

COMS 420 *Reception Studies* (3 credits)

Prerequisite: See N.B. number (2). This course examines recent theory and research trends in the area of media reception studies and audience agency. Topics may include discursive, institutional, observational, and ethnographic approaches through readings, discussion, and the design and execution of field research projects.

COMS 421 *Communicative Performances and Interventions* (3 credits)

Prerequisite: See N.B. number (2). This course examines how media can be used in order to intervene in social and cultural issues. Emphasis is placed upon the performative character of interventions: they occur at a particular time and in a particular place, they are addressed to and seek to move particular audiences. Topics may

include the history of performance strategies, the social and political character of aesthetic interventions, and the forms of such performances in relation to various media of communication.

COMS 422 *Perspectives on the Information Society* (3 credits)

Prerequisite: See N.B. number (2). This course critically examines the political, social, and ethical dimensions of the information society within Canada and throughout the world. The development of the information society is placed in a socio-historical context. The significance of information and communication technologies is considered and the role of global information and communication policies is examined.

COMS 423 *Media Art and Aesthetics* (3 credits)

Prerequisite: See N.B. number (2). This course examines the aesthetic principles pertinent to the analysis and creation of works within communication media. Topics may include the field of perception, the role of cognition, the elements of composition, and the interplay of form and meaning. Both the static and dynamic aspects of visual and aural elements are considered.

COMS 424 *Alternative Media* (3 credits)

Prerequisite: See N.B. number (2). This course examines various alternatives to mainstream media. These alternatives may include community radio and video, independent film, the Internet, and other emergent cultural forms such as the pastiche and parody of "culture jamming". The concepts of mainstream and alternative are explored and the relationship between alternative media and social practices is considered.

COMS 425 *Advanced Seminar in Cultural Studies* (3 credits)

Prerequisite: Registration in the Communication and Cultural Studies Major; see N.B. number (2). This course offers an intense examination of a prominent contemporary debate and/or issue in cultural studies. Students work toward the completion of a major research assignment.

COMS 426 *Television Studies* (3 credits)

Prerequisite: See N.B. number (2). This course examines recent research focusing on television. Topics may include technological and industrial changes, audience activity, new genres, and representational conventions.

COMS 434 *Advanced Topics in Film Studies* (3 credits)

Prerequisite: See N.B. number (2). This course provides an in-depth study of a selected area of film studies. Specific topics for this course will be stated in the Undergraduate Class Schedule.

COMS 435 *Advanced Topics in Documentary Film and Video* (3 credits)

Prerequisite: See N.B. number (2). This course

provides an in-depth study of selected film and video documentary genres. Specific topics for this course will be stated in the Undergraduate Class Schedule.

COMS 437 *Media Forecast* (3 credits)

Prerequisite: See N.B. number (2). This course examines trends in film, sound, television, and other media for future applications. The course includes theory of media effects. Representatives from industry and government are invited to discuss future trends in media utilization. The course demands a theoretical and practical model for original or novel use of a medium or media mix.

COMS 453 *Communication Ethics* (3 credits)

Prerequisite: See N.B. number (2). This course allows students to confront issues of creative responsibility and ethical dilemmas in media practice. Emphasis is placed upon the relationship between production and theory at the level of ethical responsibility. Specific issues include ethical theories as applied to media, communication and information; the relationship of human values and technologies of information reproduction; the possibilities of critical media practice; identification of challenges emerging from experience in Communication Studies.

NOTE: Students who have received credit for JOUR 316 or 317 may not take this course for credit.

COMS 460 *Political Communication* (3 credits)

Prerequisite: See N.B. number (2). The relationships between forms of communication and political structures and processes are examined. Topics include freedom of expression, the role of communication in mediating conflict, the place of deliberation and debate in democracy, political campaigns and advertising, and the relationship between styles of communication and models of governance.

COMS 461 *Organizational Communication* (3 credits)

Prerequisite: See N.B. number (2). This course considers major approaches to organizational communication in relation to shifting patterns of power, inequality, and technological change. Topics include communication networks, organization culture, bureaucracy, systematically distorted communication, gendered communication, the impact of new communication technologies, and patterns of organizational dominance and resistance. Case studies of particular organizations are examined.

COMS 462 *Communication, Culture, and Popular Art* (3 credits)

Prerequisite: See N.B. number (2). This course offers an advanced examination of popular culture. With attention to such phenomena as hit films and television shows, stars, fans, and pop art, this course focuses on the formation of hierarchies of value in cultural forms. This course

examines how some cultural products come to be celebrated while others are dismissed. It also considers social and political consequences of divisions of high and low culture.

COMS 463 *Semiotics* (3 credits)

Prerequisite: See N.B. number (2). This course provides a detailed introduction to the semiotics of communication. The course considers the formal characteristics of signs and codes and examines how signs or texts produce meaning. Central to this course is the notion that sign-systems are fundamental to the production of knowledge and ideology. The course proceeds through lectures, an analytical reading of assigned texts, and student discussion and presentations.

COMS 464 *Race, Ethnicity and Media* (3 credits)

Prerequisite: See N.B. number (2). This course addresses practical and theoretical issues of race and ethnicity that have become focal points for current debates in public cultural expression and media studies. The following themes are discussed: cultural/ racial difference and its implications for media studies; the (mis)representation of multicultural and multiracial minorities in mainstream and alternative media; questions of access to arts and other cultural funding sources; implications of employment equity legislation in light of media budget cuts; and cross-cultural awareness programs vs. anti-racist training for media professionals. Theoretical readings which frame issues of cultural and racial representation are an integral part of this course.

COMS 465 *Rhetoric and Communication* (3 credits)

Prerequisite: See N.B. number (2). This course focuses upon communication as persuasive or as producing identification. Emphasis is placed upon the role of communication in civic affairs. Classical and contemporary approaches to rhetorical theory and criticism are examined.

COMS 468 *Communications, Development and Colonialism* (3 credits)

Prerequisite: See N.B. number (2). This course discusses the role media can play in indigenous and international development. The concept of development communications is examined in the context of debates within neo-colonial and post-colonial theories.

COMS 472 *Communication Technologies and Gender* (3 credits)

Prerequisite: See N.B. number (2). Feminist theories of communication technologies are used to critique the impact and meanings of these technologies in various spheres of cultural activity. Topics include the mass media, technological mediations in organizations and institutions, and the re-articulation of domestic and public spaces, such as the Internet and the World Wide Web. Special attention is paid to these electronic and digital technologies — or new media — and the

communicational and representational possibilities they enable or foreclose. The class is conducted as an intensive seminar. Completion of a prior course in women's studies or gender studies at the university level is recommended.

COMS 473 *International Communication* (3 credits)

Prerequisite: See N.B. number (2). This course explores historical and current parameters of international communications within the context of current global shifts in power/knowledge relations. Discussion topics are selected from among the following: key development and neo-colonial theories, cultural/media imperialism, globalization, the UN infrastructure, the Right to Communicate debates, national sovereignty issues, international broadcasting, cross-cultural audience reception research and effects theories, telediplomacy, the World Wide Web and the Internet, women as an international constituency group, and others.

COMS 474 *Communication Media: Intermedia III* (6 credits)

Prerequisite: COMS 374; permission of the Department. This is an advanced course in intermedia theory and creation, exploring the interrelationships among communication design, interactivity and computer-based media production, through a variety of digital production exercises and substantial intermedia projects. *NOTE: Students who have received credit for COMS 490 may not take this course for credit.*

COMS 476 *Communication Media: Sound III* (6 credits)

Prerequisite: COMS 376; permission of the Department. This advanced course involves analysis and creation of substantial audio projects such as sound documentaries, song cycles, soundscape projects, multi-layered soundtracks, and audio installations. Emphasis is placed on creative portfolio development and public presentation. *NOTE: Students who have received credit for COMS 478 may not take this course for credit.*

COMS 483 *Communication Media: Film III* (6 credits)

Prerequisite: COMS 383; permission of the Department. This advanced course focuses on the conception, development, and production of portfolio quality films. Formats include the use of Super 16mm and digital post-production. Students develop advanced production skills and are introduced to film financing and distribution. *NOTE: Students who have received credit for COMS 481 may not take this course for credit.*

COMS 485 *Communication Media: Video III* (6 credits)

Prerequisite: COMS 385; permission of the Department. This advanced course emphasizes the formal and conceptual challenges of developing a personal voice and production style in the creation of portfolio-ready work. Through

media analysis and writing, students develop an understanding of aesthetic and critical aspects of digital video. Production resources, funding, and exhibition opportunities are investigated.

NOTE: Students who have received credit for COMS 487 may not take this course for credit.

**COMS 493 *Communication Media:
Advanced Topics* (3 credits)**

Prerequisite: COMS 374, 376, 383 or 385; submission of portfolio and project proposal to instructor and permission of the Department. This course involves the development and creation of specialized projects in selected media genres and forms. Emphasis is placed upon conception, design, and execution of media works. Choice of media and types of forms and genres vary from year to year. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

No more than six credits may be taken in Apprenticeships or Directed Study. The appropriate Cluster for Apprenticeship and Directed Study courses is determined by the course content as outlined in the student proposal.

**COMS 494 *Communication Studies
Apprenticeship I* (3 credits)**

Prerequisite: See N.B. number (1); registration in a Communication Studies program; permission of the Department. In consultation with the Apprenticeship Committee, students are given the opportunity to work in the communications industry under the co-supervision of a faculty member and a media professional. Students may be accepted for an open apprenticeship position offered to the Department, or they may formulate a study proposal on their own initiative. In order to receive credit, the apprenticeship proposal must be approved by the Committee.

**COMS 495 *Communication Studies
Apprenticeship II* (3 credits)**

Prerequisite: See N.B. number (1); registration in a Communication Studies program; permission of the Department.

NOTE: Students who have received credit for COMS 494 may register for COMS 495.

COMS 496 *Directed Study I* (3 credits)

Prerequisite: Registration in a Communication Studies program. Towards the end of their second year, students enrolled in a Communication Studies program who have demonstrated scholarly and creative ability may be selected for major research or production in a communications area of special interest. During the third year, individually or in teams, the project is realized in close collaboration with faculty directors.

NOTE: Students who have received credit for COMS 495 may not take this course for credit.

COMS 497 *Directed Study II* (3 credits)

Prerequisite: Registration in a Communication Studies program.

NOTE: Students who have received credit for COMS 496 may register for COMS 497.

COMS 498 *Advanced Topics in Communication Studies* (3 credits)

COMS 499 *Advanced Topics in Communication Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.080 ECONOMICS

Faculty	<i>Chair</i> WILLIAM A. SIMS, <i>Professor</i>	SZILVIA PÁPAI MICHAEL SAMPSON ARTYOM SHNEYEROV ECKHARD SIGGEL CHRISTIAN SIGOUIN
	<i>Professors</i> SYED AHSAN PAUL GOMME IAN IRVINE JAMES McINTOSH FRANK MÜLLER	<i>Assistant Professors</i> SEUNG HYUN HONG TATYANA KORESHKOVA MING LI DAMBA LKHAGVASUREN DIPJYOTI MAJUMDAR ARTEM PROKHOROV
	<i>Associate Professors</i> BRYAN CAMPBELL EFFROSYNI DIAMANTOUDI NIKOLAY GOSPODINOV JÖRGEN HANSEN NURUL ISLAM M. GREGORY LEBLANC DAN OTCHERE	<i>Extended Term Appointment (ETA)</i> CAROL CHUI-HA LAU <i>Distinguished Professor Emeritus</i> GORDON FISHER
Location	Sir George Williams Campus Hall Building, Room: H 1155 514-848-2424 ext. 3900	
Department Objectives	The Department aims to educate students in economics, both at the graduate and undergraduate level, and to contribute to the advancement of the discipline through research and teaching. Economists study the production, distribution, and consumption of goods and services — essential knowledge for today's business people and policy makers. Blending both theory and practical applications, the Department of Economics serves students preparing for related specialized professions (Honours, Specialization, Co-operative) as well as those interested in a generalized understanding of the discipline (Major, Minor programs).	

Programs

Students are responsible for satisfying their particular degree requirements.
Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.
The superscript indicates credit value.

NOTE: Calculus I is a prerequisite for many Economics courses. Students who have not taken MATH 209 or equivalent must take it as an elective within their first 15 credits.

BA DEGREE PROGRAMS IN ECONOMICS

60 BA Honours in Economics	6 **ECON 221 ³ , 222 ³
<i>Stage I</i>	<i>Stage II</i>
6 *ECON 201 ³ , 203 ³	6 ECON 301 ³ , 302 ³
6 **ECON 221 ³ , 222 ³	6 ECON 303 ³ , 304 ³
<i>Stage II</i>	3 Chosen from ECON 318 ³ , 319 ³
6 ECON 301 ³ , 302 ³	6 ECON 324 ³ , 325 ³
6 ECON 303 ³ , 304 ³	3 300-level ECON elective credits
6 ECON 325 ³ , 326 ³	<i>Stage III</i>
3 ECON 324 ³	3 ECON 421 ³ or 423 ³
3 Chosen from ECON 318 ³ , 319 ³	21 400-level ECON elective credits
<i>Stage III</i>	
6 ECON 401 ³ , 403 ³	42 BA Major in Economics
6 ECON 421 ³ , 422 ³	<i>Stage I</i>
12 400-level ECON elective credits	6 *ECON 201 ³ , 203 ³
	6 **ECON 221 ³ , 222 ³
60 BA Specialization in Economics	<i>Stage II</i>
<i>Stage I</i>	6 ECON 301 ³ , 302 ³
6 *ECON 201 ³ , 203 ³	6 ECON 303 ³ , 304 ³

- 3 Chosen from ECON 318³, 319³, 324³
 3 300-level ECON elective credits
Stage III
 12 400-level ECON credits
- 30 Minor in Economics**
Stage I
 6 *ECON 201³, 203³
Stage II
 6 ECON 318³, 319³
 6 200- or 300-level ECON elective credits
Stage III
 12 300- or 400-level ECON elective credits

**Students exempted from ECON 201 and/or 203 are required to replace these courses with ECON elective credits.*

***Any equivalent six credits satisfy this component of the program. See §200.7.*

24 Minor in Analytical Economics

NOTE: MATH 203 or 209; MAST221; or equivalent are prerequisites for this program. ECON 201, 203, and 325 are waived as prerequisites only for those courses which are taken as part of the Minor.

- 3 ECON 222³
 12 ECON 301³, 302³, 303³, 304³
 3 Chosen from ECON 318³, 319³
 3 ECON 324³
 3 ECON 423³

NOTE: This program is intended for students in Science, Mathematics/Statistics, or Engineering.

BCOMM DEGREE PROGRAMS IN ECONOMICS

BComm Major in Economics
 (See §61.60)

BUSINESS STUDIES

Certificate in Business Studies
Minor in Business Studies
 (See §61.140)

*Economics
Co-operative
Program*

Director
 DAN OTCHERE, Associate Professor

The Economics Co-operative program is offered to students who are enrolled in the BA Honours or Specialization in Economics. Students interested in applying for the Economics co-op should refer to §24 where a full description of the admission requirements is provided. Academic content is identical to that of the regular program, but six study terms are interspersed with three work terms. Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format. Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Economics co-op committee, which includes the student's advisors. Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ECON 201 Introduction to Microeconomics (3 credits)
 Introduction to the functioning of the market system; concepts of supply and demand, the role of prices in resource allocation; production decisions by firms. Analysis of differences between competition and monopoly, and the implications for economic efficiency; theories of labour markets and wage determination.
NOTE: Students who have received credit or exemption for ECON 200 may not take this course for credit.

ECON 203 Introduction to Macroeconomics (3 credits)
 An introductory analysis of aggregate economic activity. The focus is on the principles of determination of the level of employment, national income, real output, inflation, and international balance of payments. The course also analyses the principles which govern trade relations among

countries. These topics are integrated by a discussion of government monetary and fiscal policies to stabilize economic activity.
NOTE: Students who have received credit or exemption for ECON 200 may not take this course for credit.

ECON 221 Statistical Methods I (3 credits)
 Prerequisite: Cegep Mathematics 311 or MATH 201. This course examines elementary probability, permutations and combinations, binomial and normal distribution, as well as analysis and organization of economic data, tests of hypotheses, confidence limits, introduction into linear regression and correlation with applications to economics. *NOTE See §200.7*

ECON 222 Statistical Methods II (3 credits)
 Prerequisite: ECON 221; MATH 209; or equivalent. The course is an introduction to the application of statistical techniques to

economic data. Topics discussed include time series, statistical inference, analysis of variance, correlation, regression, and access to economic databases. *NOTE* See §200.7

ECON 251 *Economic History Prior to the Industrial Revolution* (3 credits)

This course is an introduction to the economic development of the Western world prior to the Industrial Revolution. The emphasis is on economic factors in history: evolution of economic systems, economic growth, development and regression within the context of changing institutional constraints. Interconnections among economic, social, and intellectual change are highlighted.

NOTE: Students who have received credit for ECON 250 may not take this course for credit.

ECON 252 *Economic History After the Industrial Revolution* (3 credits)

This course is an introduction to the main economic trends in the era of sustained growth and development which accelerated with the Industrial Revolution and continues to the present. The emphasis is on Europe with some coverage of North America and the colonial/developing world.

NOTE: Students who have received credit for ECON 250 may not take this course for credit.

ECON 298 *Selected Topics in Economics* (3 credits)

ECON 299 *Selected Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ECON 301 *Intermediate Microeconomic Theory I* (3 credits)

Prerequisite: ECON 201, 203; MATH 209 or equivalent. Theory and measurement of demand, theory of consumer behaviour, production, theory of the firm, and cost and revenue analysis.

ECON 302 *Intermediate Microeconomic Theory II* (3 credits)

Prerequisite: ECON 301. Market structures (perfect competition, monopoly, oligopoly), industrial concentration, factor markets, income distribution, economic efficiency, general equilibrium, welfare economics.

ECON 303 *Intermediate Macroeconomic Theory I* (3 credits)

Prerequisite: ECON 201, 203; MATH 209 or equivalent. The course introduces basic aggregative models to explore different theories on the determination of national income, interest rates and exchange rates. Topics covered include the definitions and measurements of indicators of economic activity; the components of aggregate supply and aggregate demand; the supply and demand for money; and the dynamics

of national debt and deficit. The role of macroeconomic policy, such as fiscal and monetary policy, is also examined.

ECON 304 *Intermediate Macroeconomic Theory II* (3 credits)

Prerequisite: ECON 303. This course builds on the concepts developed in ECON 303 by introducing additional features to the basic models, such as the formation of expectations and attributes of the labour market, and then using these models to explore different theories concerning the determination and the evolution of major aggregate variables, economic growth and business cycles. The role of macroeconomic policy, with an emphasis on Canada, is also examined.

ECON 311 *Economic Development* (3 credits)

Prerequisite: ECON 201, 203. The course investigates comparative economic development, with special attention to problems of capital formation, population growth, quality of labour force, and social and cultural attitudes towards economic modernization. Theories of economic development are evaluated in the context of the realities of historical patterns and the varying degrees of ability to achieve modernization.

ECON 318 *Canadian Economic Policy and Institutions* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on economic policies and institutions related to contemporary issues in the domestic economy. It is guided by the application of economic principles to such issues as regional disparities, income distribution and inequality, intra-provincial trade, social security policies, welfare programs, foreign ownership and control, competition policy, government regulation of business, unemployment, inflation, and environmental policy.

NOTE: Students who have received credit for ECON 316 may not take this course for credit.

ECON 319 *International Economic Policy and Institutions* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on economic policies and institutions related to issues such as protectionism, regionalism, and globalization. Selected topics in exchange rate and currency convertibility, liberalization of economic systems, and international economic development are also covered.

NOTE: Students who have received credit for ECON 317 may not take this course for credit.

ECON 324 *Economic Data Analysis* (3 credits)

Prerequisite: ECON 201, 203, 222. The objective of this course is to familiarize students with the techniques of data retrieval, manipulation, and analysis. Particular emphasis is placed on the CANSIM retrieval system, database programs, spreadsheet analysis, and statistical packages. Students learn how to apply the linear regression

model to economic data.

NOTE: Students who have received credit for ECON 323 may not take this course for credit.

ECON 325 *Mathematics for Economists I*
(3 credits)

Prerequisite: ECON 201, 203; MATH 209 or equivalent. This course introduces students to core topics in algebra and optimization techniques. The topics covered include vector spaces and linear transformations; matrix operations; characteristic values and vectors; matrix differentiation. In addition, the course covers a review of constrained and unconstrained optimization with economic applications; Taylor series representation, implicit function theorem, and related topics.

NOTE: Students who have received credit for MAST 234 or MATH 251 may not take this course for credit.

ECON 326 *Mathematics for Economists II*
(3 credits)

Prerequisite: ECON 325. This course covers more advanced topics in optimization methods and introduces students to techniques in economics dynamics, as well as applications of integration. Topics include quadratic forms and second-order conditions, Kuhn-Tucker theory, the maximum principle, difference and differential equations, discounting and the rudiments of probability theory.

NOTE: Students who have received credit for MAST 235, MATH 252 or 283 may not take this course for credit.

ECON 331 *Money and Banking* (3 credits)

Prerequisite: ECON 201, 203. Overview of a monetary economy: nature, forms, and the economic role of money. Monetary standards: markets, prices, and the value of money; the payments system; financial markets. Determinants of size and distribution of wealth portfolios. Supply of money: measure, composition, and size determination. The economic role of commercial banks and non-bank financial intermediaries. Central banking and monetary policy. The international monetary system. (Topics covered within the Canadian banking institutional framework.)

ECON 337 *Public Sector Economics*
(3 credits)

Prerequisite: ECON 201, 203. This course examines government fiscal activity within the context of a market economy. Rationale for public intervention is reviewed in terms of market failure and the consequent inefficiency in resource allocation. An overview of the spending and taxation policies in the Quebec-Canada context is presented. This is followed by an examination of topics such as public-spending growth, public goods, externalities and collective decision making.

NOTE: Students who have received credit for ECON 335 or 336 may not take this course for credit.

ECON 350 *Economic History of Canada*
(3 credits)

Prerequisite: ECON 201, 203. This course introduces the student to Canadian economic development focusing on the period after Confederation. The course treats the subject in a thematic, rather than a chronological, fashion and places emphasis on conflicting schools of thought and their reflection in government policies.

NOTE: Students who have received credit for ECON 351 may not take this course for credit.

ECON 361 *Industrial Organization*
(3 credits)

Prerequisite: ECON 201, 203. This course develops the relationship of the firm to various forms of market structure. The course focuses on the objectives of the corporation, corporate interdependence, and the government control of industry. A study of policy matters centres on anti-trust and corporate regulation, with respect to both the legislative and economic aspects.

ECON 362 *Economics of the Firm*
(3 credits)

Prerequisite: ECON 201, 222. This course stresses the application of economic principles and methodologies to the decision-making process of the firm, with an emphasis on the role of risk and uncertainty. Topics include decision-making criteria, demand analysis and estimation, cost analysis and estimation, pricing theory under various market structures, applied topics in pricing, and the impact of government on the firm. This course is primarily of interest to Commerce students, but is open to others as well.

ECON 377 *The Asia-Pacific Rim Economies* (3 credits)

Prerequisite: ECON 201, 203. This course focuses primarily on those Asia-Pacific Rim countries that have achieved relatively high growth, and have undergone significant economic transformations over the past two decades. Among other things, it investigates China's transformation towards a market economy, Japanese industrial development strategies, and economic development in Taiwan and South Korea. As well, institutions and associations that reinforce these trends will be studied.

ECON 379 *The Irish Economy and the European Union* (3 credits)

Prerequisite: ECON 201, 203. This course has a dual objective: to examine economic developments and recent growth in the Irish economy, and to examine the structure and importance of Ireland's participation in the European Union in a global and European context. Particular issues addressed are: high growth in developed economies, migration, taxation policy, integration and trade, currency areas and capital mobility.

NOTE: Students who have received credit for this topic under an ECON 398 number may not take this course for credit.

ECON 381 *Labour Economics* (3 credits)

Prerequisite: ECON 201, 203. The general

objective of this course is to acquaint the student with various theoretical and empirical issues in the area of labour economics. Particular emphasis is placed upon the relation between theoretical frameworks and their empirical counterparts in Canada. Topics include the theory of wage determination, the effects of minimum wages, human capital theory, the economics of discrimination, and the economics of the household.

ECON 382 *Industrial Relations I* (3 credits)

Prerequisite: ECON 201, 203. A study of the general and practical problems that arise in the labour field, such as collective bargaining, the legal framework for the settlement of industrial disputes, the weapons of industrial conflict; the labour movement; contemporary labour issues, such as automation, cost-push inflation, and structural employment.

ECON 386 *Economics of Human Resources* (3 credits)

Prerequisite: ECON 201, 203. A study of recent contributions by economists to the understanding of and solution to social problems which society currently faces in the areas of crime, health, education, and welfare. In addition, specific federal and provincial governmental policies in these areas are analysed with the standard tools of economics.

ECON 391 *Economics of the Environment* (3 credits)

Prerequisite: ECON 201, 203. The subject of this course is environmental quality. It proceeds through an analysis of the relationships among the natural environment, economics, and institutions. The objective is to depict the problem of environmental quality as an economic problem whose solution demands major changes in economic, political, and legal institutions. Attention is also given to policies of collective environmental actions in which the effective management of common property resources is discussed. The course concludes with a discussion of some broader issues, such as the consistency of improved environmental quality with continued economic and population growth.

ECON 392 *Urban Economics* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on the basic issues of economic growth and stagnation, urban land use, the problems of the urban public economy, and special urban problems, such as transportation, congestion, poverty, housing, urban renewal, and zoning.

ECON 393 *Economics of Uncertainty* (3 credits)

Prerequisite: ECON 201, 203, 222. This course focuses on the basic rules governing the application of statistical concepts such as means, variances, covariances, to the economic aspects of the problem of uncertainty. Applications in micro-economic analysis include economic aspects of insurance as well as issues in finance

such as portfolio selection, efficient markets, and the capital-asset pricing models. Applications in macroeconomics include the analysis of business cycles and problems associated with the characterization of expectations as in models of inflation. *NOTE: Students who have received credit for this topic under an ECON 398 number may not take this course for credit.*

ECON 398 *Selected Topics in Economics* (3 credits)

ECON 399 *Selected Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ECON 401 *Advanced Microeconomic Theory* (3 credits)

Prerequisite: ECON 222, 302, 326. Selected topics in microeconomic analysis including methodology, general equilibrium analysis, welfare economics; theory of the firm, factor pricing, and income distribution capital theory. Primarily for Major, Specialization, and Honours students.

ECON 403 *Advanced Macroeconomic Theory* (3 credits)

Prerequisite: ECON 222, 304, 326. Selected topics in macroeconomic analysis including construction of models of the economy encompassing the labour, product, and financial markets; the role of monetary and fiscal policies; classical, Keynesian, and post-Keynesian models. Primarily for Major, Specialization, and Honours students.

ECON 409 *History of Early Economic Thought* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers the evolution of economic thought from the Greek philosophers up to (and including) Classical economics. It seeks to provide the student with an outline of the development of economic analysis in this period. *NOTE: Students who have received credit for ECON 408 may not take this course for credit.*

ECON 410 *History of Modern Economic Thought* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers the evolution of economic thought from the Historical School to modern controversies in economic reasoning, which includes a comparative treatment of Keynesian economics and Monetarism. *NOTE: Students who have received credit for ECON 408 may not take this course for credit.*

ECON 413 *Economic Growth and Fluctuations* (3 credits)

Prerequisite: ECON 222, 302, 304. A review of some theories of causes of economic fluctuations. Discussion of the economic climate and of stabilization policies.

ECON 414 *Economic Development: Policy Analysis* (3 credits)

Prerequisite: ECON 222, 302, 304. This course offers an advanced treatment of selected topics related to issues in economic development. Particular emphasis is placed on models of growth and structural change, such as the two-gap model, input-output analysis, and computable general equilibrium models. Trade and industrial policies, fiscal and financial policies, as well as public-sector policies including taxation, spending, and cost-benefit analysis are also discussed.

NOTE: Students who have received credit for ECON 312 or 411 may not take this course for credit.

ECON 421 *Econometrics I* (3 credits)

Prerequisite: ECON 324, 326. This course develops the simple and multiple classical regression models. The problems of misspecified structures, multi-collinearity, and forecasting are also presented.

ECON 422 *Econometrics II* (3 credits)

Prerequisite: ECON 421. This course is a continuation of ECON 421. It deals with the problems of random-error correlation, stochastic regressors, and the simulation and the estimation of multiple-equation models.

ECON 423 *Applied Econometrics* (3 credits)

Prerequisite: ECON 222, 302, 304, 325 or equivalent. This course is designed to enable students to apply econometric techniques through computer analysis of case studies in model building. Topics include the analysis of aggregate consumption, construction of price indices, the estimation of production and expenditure functions, estimation and forecasting with univariate time series processes, an application with discrete dependent variables.

ECON 425 *Mathematics for Advanced Study in Economics* (3 credits)

Prerequisite: ECON 222, 302, 304, 326. This course gives students the requisite mathematical background for graduate studies in economics. Topics include algebraic methods, and static and dynamic optimization techniques needed for the study of economic theory and econometrics. Difference and differential equations are also examined.

ECON 432 *Advanced Monetary Theory* (3 credits)

Prerequisite: ECON 222, 302, 304. The nature of the monetarist-Keynesian controversy and critical appraisal of the IS-LM-AS model. Special topics: theory and evidence of term structure of interest rates, post-Keynesian demand for and supply of money in aggregative and disaggregative economic models. Theory of macroeconomic policy. Transmission mechanisms, policy coordination, lags, international constraints, and other problems.

ECON 433 *Financial Economics* (3 credits)

Prerequisite: ECON 222, 302, 304, 325 or equivalent. This course introduces students to the theory and practice of finance as seen from the economist's point of view. In particular, it examines the following topics: the theory of decision making under uncertainty; the basic portfolio models, such as the CAPM and the APT; equilibrium aspects of financial markets, such as the role of arbitrage in the pricing of financial assets; the pricing of derivative securities, such as options.

NOTE: Students who have received credit for this topic under an ECON 498 number may not take this course for credit.

ECON 436 *The Economics of Taxation* (3 credits)

Prerequisite: ECON 222, 302, 304. This course focuses on the effects of taxation on economic behaviour. Major topics considered include the excess burden of taxation in decisions to supply effort, savings and investment, the incidence of corporate taxation, and the design of commodity taxation. Among policy issues, topics such as tax evasion, and the taxation of multinational enterprises are examined.

NOTE: Students who have received credit for ECON 435 may not take this course for credit.

ECON 437 *Economics of Public Expenditure* (3 credits)

Prerequisite: ECON 222, 302, 304. This course examines the economic consequences of public expenditure on the economy. Topics covered include public goods, externalities, the theory of welfare measurement, public investment criteria, pricing policy of public enterprises, public choice and intergovernmental fiscal relations.

NOTE: Students who have received credit for ECON 435 may not take this course for credit.

ECON 442 *International Economics: Trade Theory* (3 credits)

Prerequisite: ECON 222, 302, 304. The basis of international trade, gains from trade, factor-price equalization, the tariff, Canadian commercial policy, trade and development, economic integration.

ECON 443 *International Economics: Finance* (3 credits)

Prerequisite: ECON 222, 302, 304. This course is an introduction to theory of national income determination in open economies with capital mobility. It includes analyses of balance of payments, exchange rate, and the role of monetary and fiscal policies under different exchange rate regimes. Among other issues covered are international policy coordination, optimum currency areas, and features of the international monetary system.

ECON 450 *Advanced Economic History* (3 credits)

Prerequisite: ECON 222, 302, 304. Advanced

topics in economic history, with emphasis on the application of economic theory to specific historical questions.

ECON 461 *Industrial Organization*
(3 credits)

Prerequisite: ECON 222, 302. This course examines departures from the perfect competition paradigm to analyse economic behaviour in an industrial setting. An industry consists of a number of firms which interact strategically to maximize their profits. Topics addressed include measures of market structure, theories of oligopoly, effects of potential entry, product differentiation and advertising, technological change, vertical integration, and monopoly and merger issues.

ECON 462 *The Corporate Economy*
(3 credits)

Prerequisite: ECON 222, 302. This course investigates the nature and behaviour of the firm. Economic rationalizations are presented for organizing production within a firm. The economic effects of various organization structures are examined. Topics addressed include team production, contractual models of the firm, principal-agent theory, tournaments, and the relationship between managers, shareholders, and the outside market.

ECON 463 *Economics of Regulation*
(3 credits)

Prerequisite: ECON 222, 302. This course is devoted to an examination of the economic aspects of governmental regulations. Besides a critical review of the economic theories of regulation, the spectrum of the existing regulatory network, and empirical investigations aimed at discerning cost-benefits, the course focuses on the process of regulatory reforms in all aspects of the Canadian economy.

ECON 464 *Game Theory, Information, and Economic Modelling* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers topics in non-cooperative game theory and information economics such as dominance, Nash equilibrium, subgame perfection, repeated games, bayesian equilibrium, sequential equilibrium, signalling, bargaining, auctions, moral hazard, adverse selection, and bounded rationality. The course focuses on applications, such as auditing games, nuisance suits, product quality, lemons models, entry deterrence, insurance models, winner's curse, innovation and patent races.

NOTE: Students who have received credit for this topic under an ECON 498 number may not take this course for credit.

ECON 465 *The Economics of Professional Sport* (3 credits)

Prerequisite: ECON 222, 302, 304. This is a course in applied microeconomic theory. Various observations on the state of professional sports are explained using economic theory. Evidence

of the statistical relevance of such explanations is also investigated. Issues addressed include the magnitude of the earnings of professional sports stars; the impact of free agency on competitive balance in sports leagues; the value of professional sports teams to cities, and whether such valuation justifies public subsidization of franchises or arenas.

NOTE: Students who have received credit for this topic under an ECON 498 number may not take this course for credit.

ECON 481 *Advanced Labour Economics I*
(3 credits)

Prerequisite: ECON 222, 302, 304. The course deals with advanced topics in labour economics. Consequently, a review of microeconomic concepts such as inter-temporal decision-making, uncertainty, moral hazard, adverse selection and market signalling is needed. The following topics are covered: labour supply and demand, wage differentials, human capital theory, employment relationship theory, unions and wage bargaining, job search theory, implicit contracts, and the theory of unemployment.

ECON 482 *Economics of Personnel and Industrial Relations* (3 credits)

Prerequisite: ECON 222, 302, 304. The main objective of this course is to describe how modern microeconomics and modern labour economics can be used to solve practical human resource and personnel issues. These include hiring and firing practices, optimal payment and compensation structure, unions and strike behaviour.

ECON 483 *Advanced Labour Economics II*
(3 credits)

Prerequisite: ECON 222, 302, 304. This course covers a series of topics in labour economics. In the first part of the course, students analyse hiring standards of firms, pay and productivity, and the theory of human capital. The second part focuses on mobility and labour market discrimination.

ECON 485 *Health Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course introduces students to the role of economics in health, health care, and health policy. It surveys the major topics in health economics and forms an introduction to the ongoing debate over health care policy. Topics include the economic determinants of health, the market for medical care, the market for health insurance, the role of government in health care, and health care reform.

ECON 491 *Advanced Environmental Economics* (3 credits)

Prerequisite: ECON 222, 302. This course provides a survey, from the perspective of economics, of public issues regarding the use of environmental resources, ecosystems and the management of environmental quality. The

course covers both conceptual and methodological topics with recent and current applications. It begins with an introduction to the theory and methods of environmental and natural resource economics and concepts of sustainable development. Then the emphasis is shifted to the optimal use of natural resources, both non-renewable resources (mineral and energy) and renewable resources, and the valuation of environmental resources. In the last part of the course, we examine national and international environmental policy issues, including intergenerational equity and environmental ethics.

ECON 493 *Regional Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course introduces the student to the methods and techniques of regional economic analysis, and their application to the problems of regional economies within Canada. Among the micro-economic topics covered are the location behaviour of firms and households, and the factors determining the allocation of land among alternative competing uses. Macroeconomic topics include the measurement and analysis of regional income and growth levels, cyclical changes in those levels, and interregional differences in growth rates. Policy problems pertinent to Canadian regions are stressed throughout the course.

ECON 495 *Economics of Transportation and Communications* (3 credits)

Prerequisite: ECON 222, 302. Congestion problems and solutions, pricing, costs, demand, and regulation in transportation. Some applications to communications.

ECON 496 *Natural Resource Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course focuses on the problems of the finiteness of the natural resources base in Canada and in the world, and on an analysis of the demand for and supply of natural resources and energy. The course also discusses the economic aspects of a selected group of conservation measures (financial incentives, reallocation of property rights, regulation).

NOTE: Students who have received credit for ECON 396 or for this topic under an ECON 498 number may not take this course for credit.

ECON 497 *Income Distribution and Economic Inequality* (3 credits)

Prerequisite: ECON 222, 302, 304. This course examines the extent and dimensions of economic inequality among households both domestically and internationally. Topics covered include theories of income inequality, wealth inequality, recent trends in polarization, poverty, intergenerational bequests, the welfare state, and the role of government economic policy.

ECON 498 *Advanced Topics in Economics* (3 credits)

ECON 499 *Advanced Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.090 EDUCATION

Faculty	<i>Interim Chair</i> DENNIS J. DICKS, <i>Professor</i>	LAURA COLLINS MIRANDA D'AMICO LEIF FRENCH ELIZABETH GATBONTON ARPI HAMALIAN MARLISE HORST JOANNE LOCKE HELENA P. OSANA STEVEN SHAW JOANNA L. WHITE
	<i>Associate Chair</i> WILL PENNY, <i>Lecturer</i>	
	<i>Distinguished Professors Emeriti</i> HAROLD ENTWISTLE PATSY M. LIGHTBOWN	
	<i>Professors</i> PHILIP ABRAMI JOYCE BARAKETT LOIS J. BARON ROBERT BERNARD GARY BOYD AILIE CLEGHORN LAURA COLLINS NINA HOWE ELLEN JACOBS WILLIAM KNITTER RICHARD F. SCHMID SANDRA WEBER	<i>Assistant Professors</i> WALCIR CARDOSO BRYN HOLMES SANDRA MARTIN CHANG M. AYAZ NASEEM HARICLIA PETRAKOS PAVEL TROFIMOVICH
	<i>Associate Professors</i> PAUL BOUCHARD SAUL CARLINER	<i>Lecturers</i> ANNE HETHERINGTON SARA WEINBERG
		<i>Adjunct Professor</i> JOHANNES STROBEL
<hr/>		
Location	<i>Sir George Williams Campus</i> J.W. McConnell Building, Room: LB 579 514-848-2424 ext. 2004	
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Department Objectives	The Department of Education offers general undergraduate programs as well as two teacher-training programs. The general programs focus on educational issues for lifelong learning, while the teacher-training programs are specifically for Early Childhood and Elementary Education and the Teaching of English as a Second Language. Students receive expert supervision in their field placements and are carefully guided in their methods courses. The Department values creativity and innovation in the teaching/learning environment and instills in its students a sense of responsibility with respect to equality, diversity and non-discrimination.	
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Programs	(For Teaching of English as a Second Language, see §31.090.1; for Adult Education, see §31.090.2) Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.	
	24 Minor in Education 24 Chosen from EDUC 201 ⁶ , 210 ⁶ , 230 ³ , 305 ³ , 306 ³ , 321 ³ , 398 ³ , 399 ⁶ , 405 ³ , 422 ³ , 423 ³ , 426 ³ , 427 ³ , 434 ³ , 450 ³ , 454 ³ , 498 ³ , 499 ⁶	12 <i>Group B</i> Chosen from EDUC 230 ³ , 305 ³ , 321 ³ , 383 ³ , 384 ³ , 385 ³ , 405 ³ , 406 ³ , 422 ³ , 423 ³ , 426 ³ , 427 ³ , 434 ³ , 498 ³
	120 BA Specialization in Early Childhood and Elementary Education 84 <i>Group A</i> ARTE 201 ³ ; EDUC 210 ⁶ , 211 ³ , 222 ³ , 260 ³ , 264 ³ , 295 ³ , 296 ³ , 297 ³ , 301 ³ , 311 ³ , 380 ³ , 381 ³ , 382 ³ , 387 ³ , 388 ³ , 395 ³ , 396 ³ , 400 ³ , 445 ³ , 450 ³ , 454 ³ , 493 ³ , 494 ³ , 495 ³ , 496 ³ ; THEO 355 ³	24 <i>Group C</i> Students must also take a minimum of 24 credits outside the Department of Education <i>NOTE 1: This program is open to full-time students only. In addition to the application submitted to the University, Specialization applicants MUST complete an additional application which may be obtained from the Early Childhood and Elementary Education secretary.</i>

NOTE 2: Students may be recommended to the Quebec Teachers Certification Service for a Quebec permanent teaching diploma, valid for teaching kindergarten and cycles 1 to 3 (grades 1 to 6) provided they have met the following requirements: 1. successfully completing the degree and certification requirements for the BA Specialization in Early Childhood and Elementary Education; 2. satisfying the English language proficiency requirements of the program; 3. satisfying the writing skills requirement of the University; and 4. submitting an application to graduate to the Birks Student Service Centre. To remain in the Early Childhood and Elementary Education Specialization program and to be recommended for certification, students must:

1. achieve at least a "B" grade in each of the following practicum courses: EDUC 295, 296, 297, 395, 396, 493, 494, 495, 496; and
2. achieve at least a "C+" grade in each of the following methods courses: EDUC 222, 301, 380, 381, 382, 383, 385, 387, 388.

Students who obtain a grade that is below the above required level will be placed on conditional standing within the program and will be so informed in writing. Students will be allowed to repeat the course(s) in question only once in order to achieve the required grade. (For the status of this grade as part of the student record, see §16.3.13.)

Students who fail to achieve the above minimum grades in two internships/methods courses (i.e. failing the same internship/methods course twice or two different internships/methods courses) will be required to withdraw from the Early Childhood and Elementary Education Specialization program (see §16.3.13).

NOTE 3: Students who intend to teach Catholic religious and moral instruction are advised to take EDUC 383 in addition to THEO 201, 204, or 211.

45 BA Major in Child Studies

- 21 EDUC 210⁶, 211³, 250³, 260³, 311³, 374³
 9 From area of primary concentration*
 6 From area of secondary concentration*
 9 Chosen from EDUC 230³, 321³, 406³, 422³, 426³, 498³

*See areas of concentration.

Areas of Concentration

- A. *Administration in Childhood Settings* (9 credits)
 9 EDUC 302³, 303³, 402³
 B. *Exceptional Children in Childhood Settings* (9 credits)
 9 EDUC 450³, 490³, 491³
 C. *Children and Technology* (9 credits)
 9 EDUC 305³, 306³, 405³

For other programs which may be of particular interest to teachers, see §23.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Education

EDUC 201 *The Nature and Function of Teaching* (6 credits)

An introduction to the purpose, theories, and methods of teaching.

EDUC 210 *Psychology of Education* (6 credits)

This course introduces students to a broad range of content in educational psychology, including its scope and methods, learning motivation, growth and development, adjustment, individual differences, guidance, and concept of self.

EDUC 211 *Child Development I* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies. This course provides an introduction to current theory (e.g. cognitive, social-cognitive, social learning) about children's development and covers various domains of development (social, emotional, cognitive, physical) from conception to age 12. The implications of children's development in relation to various contexts (e.g. family, neighbourhood, peers, education) are discussed.

EDUC 222 *Exploring Movement with Children* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization. From a multi-disciplinary perspective, this course examines the following topics: the relationship between movement and self-knowledge, psychomotor development, and the role of physical activity in primary education. The course addresses the teacher's role in incorporating movement into the curriculum for all children, including those with special needs through the use of specific techniques and activities.

EDUC 230 *Introduction to Philosophy of Education* (3 credits)

This course introduces the student to the content and form of several major educational theories, and to conceptual and logical procedures of philosophizing about education, with particular reference to teaching and learning.

NOTE: Students who have received credit for EDUC 230 may not take this course for credit.

EDUC 250 *Library Research Practices in Education* (3 credits)

This course is designed to introduce students

to basic library research practices used in the field of education and its related disciplines. It familiarizes students with a variety of information sources in both print and non-print formats. Emphasis is placed on a systematic search strategy and the use and evaluation of these information tools. Topics such as outlining and bibliographic formats are covered as part of the library research process.

NOTE: Students who have received credit for LIBS 250, INST 250, INSZ 250, or for this topic under an LIBS 298 number, may not take this course for credit.

EDUC 260 *Historical and Philosophical Foundations of Early Childhood and Elementary Education*
(3 credits)

Prerequisite: Thirty credits or permission of the Department; enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies. This course is an introduction to the historical and philosophical foundations of early childhood education. The development of institutions for the care and education of young children is discussed in relation to changes in the family, concepts of childhood, and educational theories. Students use methods of historical and philosophical inquiry to examine current issues in early education, including school readiness, early literacy, integration, multiculturalism, and public policy. The objective is to provide students with the basis for identifying and critiquing problems in education.

EDUC 264 *Communication: Child, Parent and Teacher* (3 credits)

Prerequisite: Thirty credits or permission of the Department; enrolment in Early Childhood and Elementary Education Specialization. This course focuses on the role parents play in the various stages of the child's academic, social, and emotional development. The format for this course is unique in that parents of the children in our observation nursery are involved, and students interact with them by conducting and participating in parent-teacher seminars. Topics include parenting, the impact of the family on the child's classroom behaviour, child abuse, cultural issues, disciplinary measures at home and in school, the coordination of home-and-school academic goals, and achievement motivation.

EDUC 295 *Internship I: Prekindergarten Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; students must be enrolled in EDUC 296 in the same semester and in their first year of the ECEE program. This internship gives students first-hand knowledge of the importance of early education. It permits students to develop preliminary skills in observing, assessing, and meeting the needs of individual children, articulating educational objectives, working effectively with small groups, and planning and implementing a play-based curric-

ulum. Students are placed in a prekindergarten class one day a week for a total of 60 hours.

NOTE: Students who have received credit for EDUC 271 may not take this course for credit.

EDUC 296 *Prekindergarten Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; students must be enrolled in EDUC 295 in the same semester. This course supports EDUC 295 by offering a thorough introduction to theoretical and applied aspects of early childhood education through a weekly seminar consisting of lectures, discussions, and video presentations on such topics as the educational and developmental needs of young children, models of education, the role of the teacher, play-based curriculum and instruction, health and safety issues, and the design of appropriate prekindergarten learning environments.

NOTE: Students who have received credit for EDUC 272 may not take this course for credit.

EDUC 297 *Internship II: Observation and Evaluation in Education*
(3 credits)

Prerequisite: EDUC 295, 296; enrolment in Early Childhood and Elementary Education Specialization. The purpose of this course is to teach students how to conduct evaluations at the elementary-school level. Students learn observation techniques, documentation procedures, authentic assessment, and formative and summative evaluation. Students learn how to create a dynamic profile of the child and how to prepare reports for parents, administrators, and specialists. Students conduct observations in recognized educational institutions (40 hours).
NOTE: Students who have received credit for EDUC 371, 373, and 375 may not take this course for credit.

EDUC 298 *Selected Topics in Education*
(3 credits)

EDUC 299 *Selected Topics in Education*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EDUC 301 *Integrating Computers into the Elementary Classroom*
(3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization. This course provides an introduction to theoretical and practical knowledge regarding the use of computers in elementary school classrooms. Assignments are designed to provide students with hands-on experience with the computer. Topics include social interaction and equity, problem-solving skills, software evaluation, interactive technologies, and curriculum planning.

NOTE: Students are expected to have some

basic computer skills (at least wordprocessing) prior to enrolling in this course. Students with no previous experience in using computers are advised to take INTE 290 before enrolling in this course.

EDUC 302 *Administration in Childhood Settings* (3 credits)

This course provides students with a foundation in administering services for children with a focus on child care. Issues reviewed include quality, the role of government, curriculum, staffing, leadership styles, financial matters, and the organizational framework.

EDUC 303 *Children, Families, and Social Policy* (3 credits)

This course examines social policy as it relates to children and families in Canada. Policies may include such areas as children's rights, child care, education, health, and social welfare.

EDUC 305 *Technology for Educational Change I* (3 credits)

Prerequisite: INTE 290 or permission of the Department. This course provides an introduction to advances in the theory, research, and practice of educational technology. Projects and activities allow for a diversity of interests.

EDUC 306 *Technology for Educational Change II* (3 credits)

Prerequisite: EDUC 305. This course is intended for students who wish to advance their media design and development skills. Building on the theoretical and practical foundations established in EDUC 305, this course provides students with an opportunity to design and develop an instructional package aimed at addressing an identified instructional need.

EDUC 311 *Child Development II* (3 credits)

Prerequisite: EDUC 211; enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies; 30 credits. This course is designed to provide students with an in-depth review of the developmental, psychological, and socio-cultural aspects of the child and the family. Emphasis is placed on structural elements related to the modern family (e.g. family size, developmental tasks), family relations (e.g. transition to parenthood, parenting styles, early relationships) and problems and issues (e.g. employed mothers, divorce, child care, cultural differences, teenage mothers).

NOTE: Students who have received credit for EDUC 262 may not take this course for credit.

EDUC 321 *Sex Role Socialization in the School* (3 credits)

This course focuses upon how children at the elementary- and secondary-school level are socialized for different work roles, and how work segregation has occurred on the basis of this process. The role of schools and curriculum is examined in relation to cultural changes in social roles.

EDUC 374 *Child Studies Practicum* (3 credits)

Prerequisite: 30 credits in the Major program. This course is designed to provide students with training in observation and evaluation procedures. Students study children in a variety of child-oriented environments and programs. Instruction focuses on evaluative methodology, e.g. observational methods and interactional analyses. Students are required to complete a one half-day per week internship in addition to the regularly scheduled class time. Appropriate field placements for this course include recreation/community centres, hospitals, daycare centres, libraries, museums, fine arts centres.

NOTE: Students who have received credit for EDUC 371 may not take this course for credit.

EDUC 380 *Teaching Language Arts I* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course enables students to acquire the necessary skills for developing a stimulating and appropriate language arts program for kindergarten and primary grades. Current theories of literacy development and implications for planning and instruction are addressed. The course focuses on listening, speaking, reading, and writing, emphasizing the integration of language arts activities into other subject areas.

EDUC 381 *Teaching Language Arts II* (3 credits)

Prerequisite: 30 credits including EDUC 380; enrolment in Early Childhood and Elementary Education Specialization. This course is a continuation of EDUC 380 with special emphasis on teaching language arts in grades 3 to 6. Students become familiar with MELS program guidelines, and various ways to organize and evaluate their implementation.

EDUC 382 *Teaching Science Concepts in the Elementary Classroom* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course examines areas of science which are relevant to elementary education and emphasizes the development of the spirit of scientific enquiry. Resource materials, teaching methodology, and classroom activities are examined and evaluated in light of the MELS guidelines. Assignments emphasize developing activities for classroom use.

EDUC 383 *Promoting Moral and Spiritual Attitudes and Values in Children* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course is designed to introduce students to the various issues involving the development of moral judgement and reasoning in children. Cultural, social, cognitive, and emotional factors influencing the growth of morality are discussed. The major focus is on examining methods and

techniques to enhance the personal development of positive social behaviours (i.e. helping, sharing, caring, etc.).

EDUC 384 *Teaching Social Studies in Elementary Schools* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course examines the teaching of social studies to elementary-school-age children.

EDUC 385 *Teaching a Second Language in Early Childhood and Elementary School* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course is designed to give teachers a background in current theories of language acquisition and second language learning. Teaching methodologies such as immersion, enrichment, and core/complementary curricula are studied and resource materials are examined and evaluated. Assignments include the development of appropriate classroom activities at the elementary level.

EDUC 387 *Teaching Mathematics I* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. Programs and methodologies for teaching numerical concepts typically acquired by the preschooler and the primary child are studied and evaluated. Relevant resource materials are examined and assignments focus upon development of activities for the classroom.

EDUC 388 *Teaching Mathematics II* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course concentrates on topics such as geometry, classification, measurement, mathematical language, and the use of the calculator according to the MELS elementary mathematics program guidelines. The use of manipulative aids in instructing children is explored and illustrated. Relevant resource materials are examined and assignments focus upon the development of activities for classroom use.

EDUC 395 *Internship III: Kindergarten Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 30 credits including EDUC 295, 296, 297; students must be enrolled in EDUC 396 in the same semester. This internship is an eight-week (200 hours) supervised student-teaching experience in a full-day kindergarten classroom. Students share in the daily work of their cooperating teachers, and progress gradually from being participant observers working with small groups to taking charge of the whole class. Students practice their skills in activity planning, intervention strategies, the evaluation of student learning, and the

management of classroom routines.

NOTE: Students who have received credit for EDUC 473 may not take this course for credit.

EDUC 396 *Kindergarten Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 30 credits including EDUC 295, 296, 297; students must be enrolled in EDUC 395 in the same semester. This seminar complements EDUC 395 by providing the opportunity, means, and impetus for students to reflect critically on their teaching philosophy and practice. Topics include the development of appropriate and stimulating learning environments, *Ministère de l'Éducation, du Loisir et du Sport* kindergarten program guidelines, planning and implementation of learning centres, teaching centres, teaching the "whole" child, teacher-parent relationships, and other current issues in kindergarten education. *NOTE: Students who have received credit for EDUC 474 may not take this course for credit.*

EDUC 398 *Selected Topics in Education* (3 credits)

EDUC 399 *Selected Topics in Education* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EDUC 400 *Teaching Across the Curriculum* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; EDUC 380. Using language arts and the social sciences as the starting point, this course outlines different models for integrating school subjects in curriculum programming. Special attention is given to social science methodology, thematic planning and project work, and to the use of literature and drama. Students examine the links between the different programs of study developed for Quebec schools by the MELS, and their overall implications for curriculum planning.

EDUC 402 *Diversity Issues in Childhood* (3 credits)

Prerequisite: 30 credits. This course explores the diversity of contemporary Canadian childhood, including issues related to immigrant children and families, multilingual issues, and cultural differences in child-rearing. The course reviews theoretical and applied approaches for providing services to children and families from culturally diverse backgrounds.

EDUC 405 *Children and Technology* (3 credits)

Prerequisite: 30 credits. This course examines the interaction between children and technology from a socio-cultural perspective, including the effects of media such as television, computers,

and the Internet. Emphasis is placed on the developing child in the context of communication and technology as related to informal educational activities and play.

EDUC 406 *Educational Aspects of Physical Activity, Health and Wellness* (3 credits)

Prerequisite: EDUC 210 or PSYC 200 or equivalent; 30 credits. This course examines the promotion of physical health and well-being of both adults and children. Using an educational approach, principles from the Psychology of Sports, including stress management, motivation, mental training and goal-setting serve as the foundation from which students learn how to enhance sport or exercise performance and general lifeskills.

EDUC 422 *Sociology of Education I* (3 credits)

Prerequisite: 30 credits. This course emphasizes sociological concepts and their theoretical and practical applications to the study of education. The focus is on the following: how the education system is structured, how schooling and education fit into the overall social structure, how educational experiences vary for members of different social groups, the role education plays in gender, class, and racial inequalities, the complexity of issues relating to student evaluation and performance, and the role education plays in social change.

NOTE: Students who have received credit for EDUC 421 may not take this course for credit.

EDUC 423 *Sociology of Education II* (3 credits)

Prerequisite: EDUC 422. This course considers how a particular sociological viewpoint contributes to our understanding of school life. Topics include family, socialization patterns, teacher and pupil perspectives, and how these are interrelated.

NOTE: Students who have received credit for EDUC 421 may not take this course for credit.

EDUC 426 *Comparative Education I* (3 credits)

Prerequisite: Six credits in Education. This course undertakes the study of the impact of political and cultural differences upon educational systems (for example, the impact of language differences, nationalism, colonialism, neocolonialism, political socialization). The approach is comparative, with particular emphasis on contrasting educational systems and practice in selected countries.

EDUC 427 *Comparative Education II* (3 credits)

Prerequisite: Six credits in Education. This course examines the sources and impacts of educational change from a comparative perspective. Topics include pedagogical alternatives; socio-political alternatives; educational implications of technological change and economic policy; policies of elitism and egalitarianism. Methods include

comparative case study and analysis of specific theories of educational innovation.

EDUC 432 *Seminar in Epistemology and Education* (3 credits)

Prerequisite: Six credits in Education, or permission of the Department. Theories of knowledge are considered in this course, with special attention being given to the bearing of such topics as perception, evidence, truth, knowledge, and belief as relating to educational thought and practice. Students are expected to become familiar with recent periodical and other literature in the field.

EDUC 434 *Aesthetics and Education* (3 credits)

Prerequisite: EDUC 230 or permission of the Department. The nature of aesthetic value and experience, and theories of art and beauty are examined. The development of the emotions and imagination, and their functions in aesthetic awareness are central concerns of this course. Students are expected to become familiar with the relevant literature in the field.

EDUC 445 *Education in Quebec* (3 credits)

Prerequisite: 30 credits in a teacher certification program, or holder of a provisional teaching authorization, or permission of the Department. This course covers the history, the contemporary movements, and the structures of Quebec education. The historical section covers the period from 1608 until the present. Topics included are the legislation, regulations, rules, and directives pertaining to the respective roles of the *Ministère de l'Éducation, du Loisir et du Sport*, the school boards, the teachers, the parents, and the students in Quebec's educational system.

NOTE: Because this is a required course for all individuals enrolled in a Quebec program of teacher training, the content is controlled by the MELS.

EDUC 450 *The Inclusive Classroom: Educating Exceptional Children* (3 credits)

Prerequisite: 30 credits including EDUC 210 or 211. This course focuses on the education of children with special needs. Emphasis is placed on ways in which classroom teachers can provide appropriate help or instruction to meet the needs of exceptional children. Topics include identification and assessment of learning needs; adaptation of curriculum and activity design, service delivery models; parent-professional relationships; legislative policies.

EDUC 454 *Diversity in the Classroom* (3 credits)

Prerequisite: 30 credits including EDUC 210 or 211. Students examine the implications of diversity in the classroom for teaching, curriculum, and children's educational experience. Various theoretical approaches are analysed, including critical pedagogy, multicultural education, and intercultural education. The importance of inclusive curricula is discussed.

EDUC 471 *Supervised Internship* (6 credits)

This course is offered only to students enrolled in the Certificate in Education program. Teaching internship is carried out in the school where the student is employed. The students are supervised and their teaching performance evaluated. The students are expected to demonstrate positive evidence of teaching competence and professional behaviour.

EDUC 480 *Special Methods of Teaching — Elementary* (3 credits)

This course is offered only to students enrolled in the Certificate in Education program. It deals with methods of teaching in the elementary school. Emphasis is placed on the practical application of educational theories.

EDUC 481 *Special Methods of Teaching — Secondary* (3 credits)

This course is offered only to students enrolled in the Certificate in Education program. This course deals with methods of teaching in a high school subject. The course is designed to suit the individual student's field of specialization.

EDUC 490 *The Exceptional Child I* (3 credits)

Prerequisite: EDUC 211 or equivalent; 30 credits in Education, or permission of the Department. This course is an introduction to the educational issues concerning children with special needs. The focus is on inclusive childhood settings. Theoretical models, intervention strategies, and advocacy are issues that are explored.

EDUC 491 *The Exceptional Child II* (3 credits)

Prerequisite: EDUC 490, or permission of the Department. This course is an in-depth exploration of children's experience with intellectual, emotional, and physical disability, and specific interventions that can foster coping, healthy development, and family systems approach.

EDUC 493 *Internship IV: Primary Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 60 credits including EDUC 295, 296, 297, 395, 396; students must be enrolled in EDUC 494 in the same semester. The internship is an eight-week (200 hours) supervised student-teaching experience in a primary classroom (grades 1 to 3). Students share in the daily work of their cooperating teachers, and progress gradually from being participant observers working with small groups to taking charge of the whole class as independent, creative practitioners. Students perfect their skills in activity planning, intervention strategies, the evaluation of student learning, and the management of classroom routines.

NOTE: Students who have received credit for EDUC 473 may not take this course for credit.

EDUC 494 *Primary Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and

Elementary Education Specialization; 60 credits including EDUC 295, 296, 297, 395, 396; students must be enrolled in EDUC 493 in the same semester. The seminar complements EDUC 493 by providing the opportunity, means, and impetus for students to reflect critically on their teaching philosophy and practice. Topics include the development of appropriate and stimulating learning environments, *Ministère de l'Éducation, du Loisir et du Sport* primary program guidelines, planning and implementation of curriculum units, teacher-parent relationships, and other current issues in primary education. *NOTE: Students who have received credit for EDUC 474 may not take this course for credit.*

EDUC 495 *Internship V: Upper Elementary Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 90 credits including EDUC 222, 295, 296, 297, 301, 380, 381, 382, 383, 385, 387, 388, 395, 396, 493, 494; students must be enrolled in EDUC 496 in the same semester. Students are placed in an elementary classroom (grades 4 to 6) for an eight-week student-teaching experience (200 hours). They are provided with the opportunity to continue to develop their own teaching strategies and enhance their skills in curriculum planning and implementation, preparing and evaluating classroom materials, and monitoring student progress. Students participate in the daily routines and educational duties of their cooperating teachers and become involved in student activities. *NOTE: Students who have received credit for EDUC 475 may not take this course for credit.*

EDUC 496 *Upper Elementary Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 90 credits including EDUC 295, 296, 297, 395, 396, 493, 494; students must be enrolled in EDUC 495 in the same semester. The main focus of EDUC 496 is the discussion, review, and analysis of relevant material in the context of students' internship placements. Topics include curriculum development and diversity in the classroom population, involvement of parents in their children's education, *Ministère de l'Éducation, du Loisir et du Sport* guidelines, teaching strategies, self-reflection and evaluation. *NOTE: Students who have received credit for EDUC 476 may not take this course for credit.*

EDUC 498 *Advanced Topics in Education* (3 credits)**EDUC 499 *Advanced Topics in Education* (6 credits)**

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Information Studies

INST 250 *Introduction to Library Research Practices* (3 credits)

This course is designed to introduce students to basic library research practices. It familiarizes students with a variety of information sources in both print and non-print formats. Emphasis is placed on a systematic search strategy in the use and evaluation of these information tools. Topics such as outlining and bibliographic format are covered as part of the library research process.

NOTE: Students who have received credit for EDUC 250, INSZ 250, or LIBS 250 may not take this course for credit.

Library Studies

LIBS 495 *Field Practice* (3 credits)

Prerequisite: Completion of all other required Library Studies courses. In consultation with the appropriate supervising librarian, the student is placed in a local library system other than the library in which the student is employed. The duration of the field practice is five weeks. Field practice includes a wide variety of library tasks. In addition the student is required to complete a written research project on a topic approved by the professor.

31.090.1 *Teaching of English as a Second Language*

Admission Requirements (BEd)

BEd (Teaching English as a Second Language)

The Centre for the Teaching of English as a Second Language offers the BEd Degree (Teaching English as a Second Language).

General admission requirements are listed in §13 (Admission Regulations). Specific requirements are as follows:

1. Satisfactory completion of a two-year pre-university program in a Cegep or equivalent. Within the program, the students will be required to have successfully completed the equivalent of four semester courses in English.
2. Owing to the specialized nature of this program, no more than 60 pro-tanto credits will be permitted, and the University reserves the right to determine which ones these should be. (See §16.1.3.5)
3. Applicants must demonstrate competence in English and French through formal tests of proficiency and obtain scores acceptable to the Department of Education.

NOTE I: Arrangements for taking the proficiency tests may be made through the Office of the Registrar.

4. The BEd (TESL) is open to both prospective and experienced teachers and is offered in the day and evening. The internship courses are offered only as daytime, Fall/Winter courses.

Program

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

120 BEd Specialization in Teaching English as a Second Language

- 57 TESL 221³, 231³, 326⁶, 330³, 331³, 341³, 351³, 415³, 426³, 427³, 466³, 467³, 471³, 486⁶, 487⁶, 488³
- 15 EDUC 210⁶, 445³, 450³, 454³

- 15 ENGL 212³ and 213³, or 396⁶; any nine credits in English literature
- 6 Credits in a third language other than English or French
- 27 Elective credits chosen from a list approved by the Department

CERTIFICATE IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

This 30-credit program is offered to individuals whose native language is English or whose proficiency in English meets native-user standards.

Admission Requirements

1. Applicants must have completed a bachelor's degree.
2. Applicants must demonstrate competence in English through formal tests of proficiency and obtain scores acceptable to the Department of Education.

NOTE I: Arrangements for taking the proficiency tests may be made through the TESL Centre.

Concordia students may transfer into the Certificate program all applicable Concordia credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. Students from other institutions may transfer up to 12 applicable credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

The TESL Certificate program is offered in the evening.

NOTE II: Individuals who have completed a prior Concordia University TESL Certificate are not eligible for admission to this Certificate.

NOTE III: The Certificate in the Teaching of English as a Second Language does not satisfy the requirements for a Québec brevet d'enseignement : autorisation personnelle permanente (a teaching diploma).

Program	30	Certificate in the Teaching of English as a Second Language
	6	ENGL 212 ³ and 213 ³ or 396 ⁶
	24	TESL 221 ³ , 231 ³ , 324 ³ , 331 ³ , 341 ³ , 415 ³ , 424 ³ , 433 ³

INFORMATION RELEVANT TO PROGRAMS IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

NOTE I: Upon successful completion of the BEd (TESL) program and after application to the Office of the Registrar, a graduate may be recommended to the Quebec Teachers Certification Service for a "Brevet d'enseignement: autorisation personnelle permanente" (a teaching diploma). Graduates who wish to teach ESL in francophone schools, the only schools in Quebec where ESL may be taught, must satisfy the French proficiency requirements of the school board to which they apply.

There is no comparable certification process for teaching ESL at the Cegep level — Collège d'enseignement général et professionnel (junior college) or other adult level.

To be recommended for certification, students must achieve at least a "C" grade in methodology and teaching practice courses: that is, TESL 326⁶, 330³, 331³, 426³, 427³, 466³, 467³, 471³, 486⁶, and 487⁶. Students who obtain a passing grade that is below the level required for recommendation for certification will be placed on conditional standing within the program and will be so informed in writing by the TESL Program Director. Students will be allowed to repeat the course(s) in question only once in order to achieve the required grade. (For the status of this grade as part of the student record, see Calendar §16.3.13.)

Students who fail to achieve the above minimum grade in two methodology/practice teaching courses (i.e. failing to achieve a grade of "C" in the same methodology/practice teaching course twice or two different methodology/practice teaching courses) will be withdrawn from the Teaching English as a Second Language Specialization program and will also be so informed in writing by the TESL Program Director (see §16.3.13).

Students who obtain a failing grade (F, R, or NR) in any of the courses listed above as methodology and practice teaching will be withdrawn from the program and will also be so informed in writing by the TESL Program Director.

In the event that a student meets regular university standards but does not satisfy the requirements for recommendation for certification, the student may apply to receive the university degree but will not be recommended to the Ministry.

NOTE II: Upon admission, students may be granted exemptions from courses in TESL programs if they have completed equivalent work at the university level.

Replacement for these exemptions must be made in accordance with the guidelines established by the Department of Education and approved by the University. Copies of these guidelines may be obtained in the Department of Education.

TESL Courses	Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.	
	<p>TESL 221 <i>Phonology for Teachers</i> (3 credits)</p> <p>Prerequisite: TESL 231 concurrently. The aim of this course is to provide students with a knowledge of the major features of the English sound system, and to prepare them, through practical teaching assignments with ESL students, to apply this knowledge in the language classroom. Contrasts and comparisons are made with French and other languages.</p>	<p>C+ grade in TESL 231 will be placed on conditional standing within the program and will be so informed in writing by the TESL Program Director. Students will be allowed to repeat this course only once in order to achieve the required grade.</p>
	<p>TESL 231 <i>Modern English Grammar</i> (3 credits)</p> <p>Prerequisite: TESL 221 concurrently. The purpose of this course is to provide students with a current description of the English grammatical system at the text level, to make them aware of grammatical differences between English and French and other major languages, and to alert them to typical grammatical errors made by non-native speakers of English.</p> <p>NOTE: Students who do not achieve at least a</p>	<p>TESL 298 <i>Selected Topics in TESL</i> (3 credits)</p> <p>TESL 299 <i>Selected Topics in TESL</i> (6 credits)</p> <p>Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.</p>
		<p>TESL 324 <i>Methodology I</i> (3 credits)</p> <p>This course reviews current theory in applied linguistics which relates directly to teaching and learning ESL in the classroom. Techniques and methods appropriate to child, adolescent, and adult learners are discussed and demonstrated.</p>

In this course the emphasis is on classroom-oriented techniques and materials related to the teaching of listening and speaking.

NOTE: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

TESL 326 *TESL Pedagogy: General*
(6 credits)

Prerequisite: TESL 221, 231 previously or concurrently. The purpose of this course is to introduce students to the profession of teaching English as a second language to children, adolescents, and adults. Students examine a variety of approaches and methodologies that have been used in the past and how these have contributed to current thinking and practices. They have the opportunity to observe English-language instruction in a variety of settings through visits and video presentations. They discuss issues related to lesson planning, audio-visual aids, classroom organization and management techniques. Special attention is paid to the creation of lessons appropriate to adult learners. A minimum of 30 hours is spent observing and assisting in adult ESL classes. Assignments include classroom-based projects.

TESL 330 *Computers in Language Learning* (3 credits)

Prerequisite: TESL 221, 231, 326. The purpose of this course is to introduce students to the uses of the computer in the ESL class. Students acquire knowledge of computer applications for language learning and how to incorporate this knowledge into classroom practice.

TESL 331 *Grammar for Teachers*
(3 credits)

Prerequisite: TESL 231 with a grade of C+ or better. The purpose of this course is to provide students with current approaches, methods, and materials in the teaching of grammar to children, adolescents, and adults of the ESL classroom. Students will be prepared to analyse critically and modify published classroom materials related to the teaching and learning of grammar.

TESL 341 *Language Acquisition*
(3 credits)

Prerequisite: TESL 221, 231 previously or concurrently; or permission of the Department. This course examines sociocultural and psycholinguistic influences on the acquisition of a first and second language. These issues are examined in relation to the learning and teaching of a second language to children, adolescents, and adult learners.

TESL 351 *History of the English Language* (3 credits)

Prerequisite: TESL 221, 231 with a grade of C+ or better, or permission of the Department; TESL 415, 427, 467 concurrently. The purpose of this course is to provide students with an overview of

the significant changes which have taken place in the English language from Proto-Indo-European to the present. Students consider the evolving nature of English and its role as an international language.

TESL 361 *Teaching English for Specific Purposes* (3 credits)

Prerequisite: TESL 324, or permission of the Department. This course provides instruction in the teaching of language skills to those who require English either as an auxiliary to their scientific, technical, or professional skills or as a medium for training in these areas.

TESL 398 *Selected Topics in TESL*
(3 credits)

TESL 399 *Selected Topics in TESL*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

TESL 415 *Testing, Evaluation and Course Design* (3 credits)

Prerequisite: For BEd students: TESL 426 or 427 previously or concurrently; for Certificate students: TESL 324 previously or concurrently. The purpose of this course is to prepare students to test and evaluate learners in different types of ESL programs. Students examine syllabi and evaluation systems used in the schools and in adult education settings, and become familiar with placement and proficiency testing materials.

TESL 424 *Methodology II* (3 credits)

Prerequisite: TESL 324. This course continues the presentation of techniques and methods begun in TESL 324. In this course the emphasis is on classroom-oriented techniques and materials related to the teaching of reading and writing.
NOTE: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

TESL 426 *Pedagogy: Primary* (3 credits)

Prerequisite: TESL 326; TESL 330, 466, EDUC 210 previously or concurrently. The purpose of this course is to familiarize students with the principles of TESL pedagogy in regular and intensive ESL primary classrooms. This course emphasizes knowledge of MELS primary-school programs and approved materials. Students learn classroom management techniques, assessment practices, and how to adapt materials to specific primary-school contexts.

TESL 427 *Pedagogy: Secondary*
(3 credits)

Prerequisite: TESL 426, 466; TESL 467 concurrently. The purpose of this course is to familiarize students with the principles of TESL

pedagogy in regular and Language Arts (ESL-LA) ESL secondary classrooms. This course emphasizes knowledge of MELs secondary programs and approved materials. Students learn classroom management techniques, assessment practices, and how to adapt materials to specific secondary-school contexts.

TESL 433 *Practicum* (3 credits)

Prerequisite: TESL 324. This course is open only to students enrolled in the TESL Certificate. In this course, students practise techniques which were introduced in their methodology courses. There are opportunities for observation of ESL classes taught by experienced teachers. Techniques presented in TESL 324 and 424 are practised in micro-teaching, peer teaching, and sessions with groups of ESL students. Requirements include lesson planning and the evaluation of one's own teaching performance.
NOTE: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

TESL 466 *Internship: Primary I* (3 credits)

Prerequisite: TESL 330, 426, EDUC 210, 454 previously or concurrently. The purpose of this course is to apply the principles acquired in TESL 426 to the teaching of ESL to primary-school learners. Students attend on-campus seminars and spend a minimum of 140 hours observing and teaching in a primary school supervised by a cooperating teacher and a university professor.

**TESL 467 *Internship: Secondary I*
(3 credits)**

Prerequisite: TESL 427 concurrently; TESL 466. The purpose of this course is to apply the principles acquired in TESL 427 to the teaching of ESL to secondary-school learners. Students attend on-campus seminars and spend a minimum of 140 hours observing and teaching in a secondary school supervised by a cooperating teacher and a university professor.

**TESL 471 *Teaching Language Arts:
Secondary* (3 credits)**

Prerequisite: TESL 426, 466; TESL 427 previously or concurrently. The purpose of this course is to familiarize students with the principles and techniques of teaching comprehension and production skills to advanced secondary learners of ESL. Students are made familiar with current approaches to the teaching of high-level oral interaction skills, reading and writing skills, corrective feedback to writing, and the use of long-term projects and portfolios. The use of authentic English texts such as essays, novels, short stories, poetry, and drama is emphasized.
NOTE: Students who have received credit for TESL 318 or for this topic under a TESL 498 number may not take this course for credit.

TESL 486 *Internship: Primary II* (6 credits)

Prerequisite: ENGL 212, 213 with a grade of C+ or better; EDUC 450, 454; TESL 330, 331, 341, 415, 426, 466, 471; TESL 487, 488 concurrently. Students must also have completed at least six of the required nine credits in English Literature. The purpose of this course is to further develop the skills required in teaching ESL to primary-school learners. Students teach a minimum of 210 hours supervised by a cooperating teacher and a university professor. In addition, students attend on-campus seminars in which they discuss and reflect upon their experiences in the schools.

**TESL 487 *Internship: Secondary II*
(6 credits)**

Prerequisite: TESL 467; TESL 486, 488 concurrently. The purpose of this course is to further develop the skills required in teaching ESL to secondary-school learners. Students teach a minimum of 210 hours supervised by a cooperating teacher and a university professor. In addition, students attend on-campus seminars in which they discuss and reflect upon their experiences in the schools.

TESL 488 *Internship Seminar* (3 credits)

Prerequisite: TESL 486, 487 concurrently. The purpose of this course is to integrate the knowledge gained during the BEd with the knowledge that students have acquired during practice in the field. Students reflect on and make explicit their own professional and personal development over the course of the four-year program and set goals for future long-term professional development.

**TESL 491 *Study in a Special Subject*
(3 credits)**

Prerequisite: Permission of the Department. This course provides an opportunity for advanced students to intensify their study beyond the area of specialization already represented by the curriculum. The selected subject varies with the special interest of the instructor conducting the course in any given year.

**TESL 492 *Study in a Special Subject*
(3 credits)**

Prerequisite: Permission of the Department. A student repeating TESL 491 registers for credits under TESL 492.

**TESL 498 *Advanced Topics in TESL*
(3 credits)**

**TESL 499 *Advanced Topics in TESL*
(6 credits)**

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

COURSES IN ENGLISH AS A SECOND LANGUAGE

Courses in English as a Second Language are designed for students who are not native speakers of English and who need further training in the effective use of English in the university setting. Students must be tested for placement in ESL 207, 208, 209, or 210. Information about placement testing schedules may be obtained from the English Language Proficiency Testing Office of the Department of Education, 2070 Mackay, Room: 200, 514-848-2424 ext. 2453. A special examination fee is charged. (See §15.1)

Written work is required in English for these courses; please consult with the Department.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

NOTE: Students enrolled in a regular degree or an extended credit degree program in the Faculty of Arts and Science may take ESL courses for degree credit, up to a maximum of six credits.

**ESL 207 English Language —
Intermediate I (3 credits)**

Prerequisite: Placement by the Concordia English Language Diagnostic Test. A course for students who are not native speakers of English and who need further training in the effective use of English in the university setting. Emphasis is on reading and writing skills.

NOTE: Students who have completed ESL 100 or have received credit for ENGL 205 or 206 may not take this course for credit.

**ESL 208 English Language —
Intermediate II (3 credits)**

Prerequisite: ESL 207, or placement by the Concordia English Language Diagnostic Test. This course is a continuation of ESL 207.

NOTE: Students who have completed ESL 100 or have received credit for ENGL 205 or 206 may not take this course for credit.

**ESL 209 English Language —
Advanced I (3 credits)**

Prerequisite: ESL 208, or placement by the Concordia English Language Diagnostic Test. This course is for students who are not native speakers of English. It encourages the development of effective written communication and improved reading comprehension, so that students may perform competently in their other

university work.

NOTE: Students who have received credit for ESL 201 or ENGL 205 or 206 may not take this course for credit.

**ESL 210 English Language —
Advanced II (3 credits)**

Prerequisite: ESL 209, or placement by the Concordia English Language Diagnostic Test. This course is a continuation of ESL 209. Emphasis is upon writing the academic research paper.

NOTE: Students who have received credit for ESL 201 or ENGL 205 or 206 may not take this course for credit.

**ESL 290 Communication through
the Study of Special Topics
(3 credits)**

Prerequisite: Successful completion of ESL 201; ESL 209, or tested equivalence. This course is for non-native speakers of English only. Its primary aim is to increase students' oral fluency in English; its secondary aim is to encourage improved levels of competence in the other language skills: listening, reading, and writing.

ESL 298 Selected Topics in ESL (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

**31.090.2
Adult Education**

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

30 Certificate in Adult Education

Certificate Admission Requirements

General admission requirements are listed in §13. Applicants will be interviewed prior to admission.

Students must take:

- 9 ADED 201³, 202³, 220³
- 12 Chosen from the Adult Education (ADED) offerings
- 3 Chosen from cognate courses with the permission of the program director
- 6 ADED 496³, 497³, Integrative Internships I and II

Students may transfer into the Certificate program up to 12 credits earned in an incomplete degree or Certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

24 Minor in Adult Education

- 9 ADED 201³, 202³, 220³
- 15 Chosen from Adult Education (ADED) course offerings with the prior approval of the Adult Education advisor.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ADED 201 *Concepts and Principles of Adult Education* (3 credits)

This course consists of an overview of the field of adult education as a field of study with emphasis given to its philosophy, objectives, historical development, and the nature of adult learners. It also examines adult education as a field of practice with emphasis given to methods, techniques, roles, and competencies. This course stresses active student participation and self-directedness. *NOTE: Students who have received credit for ADED 200 may not take this course for credit.*

ADED 202 *The Scope and Nature of Adult Education Programs* (3 credits)

This course is designed to help students develop an understanding of the scope and nature of adult education programs. Emphasis is placed on existing programs, and institutions and agencies providing them. The course stresses active student participation and self-directedness. *NOTE: Students who have received credit for ADED 200 may not take this course for credit.*

ADED 220 *Adults as Learners* (3 credits)

This course examines the unique physiological, psychological, and sociological characteristics of adults, their influence on adult learning and development, and their implications for educational intervention. Attention is given to changes which occur at various stages of the adult life cycle, and particularly to the dimensions which affect the adult's self-concept and orientation to learning, the motivations, needs, and interests which cause adults to participate in educational activities.

ADED 230 *Roles and Competencies of Adult Educators* (3 credits)

The purpose of this course is to review the state of professionalization of adult education. General skills, knowledge, and attitudes expected of adult educators regardless of the setting in which they work are examined. In addition, according to the participants' needs and interests, an opportunity is given to explore competencies related to the particular roles of, e.g., administrators, program developers, trainers, leaders, instructors, counsellors, and volunteer workers.

ADED 240 *Introduction to Research in Adult Education* (3 credits)

This course is designed to introduce students to how to gain access to and utilize major information sources in adult education. In addition, the course examines research interests and problem areas studied in adult education and related fields, along with current trends and various methods of enquiry used.

ADED 298 *Selected Topics in Adult Education* (3 credits)

ADED 299 *Selected Topics in Adult Education* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ADED 302 *Group Dynamics* (3 credits)

This course examines the processes, conditions, and skills involved when adults work in groups. Participants develop a knowledge and understanding of group dynamics and acquire the skills needed for using groups as a means of adult learning. One of the approaches this course takes is to have participants learn about group dynamics by being actively involved in various interactive group situations.

NOTE: Students who have received credit for this topic under ADED 370 may not take this course for credit.

ADED 333 *Methods and Techniques for Facilitating Adult Learning* (3 credits)

This course is designed to give adult educators an opportunity to practise and improve their skills in facilitating adult learning. Different models of educational processes and optimal conditions for promoting adult learning are examined; attention is given to case studies, role plays, and simulation methods and techniques, as well as to individualized learning formats.

NOTE: Students who have received credit for ADED 330 or 331 may not take this course for credit.

ADED 344 *Design of Adult Learning Projects* (3 credits)

The purpose of this course is to assist participants in developing a clear working concept of various models for planning and designing adult learning projects. To facilitate this understanding, the different steps of the process are closely examined and discussed. Participants are given an opportunity to design and conduct a learning activity in the area of subject matter speciality. A systems approach, including methods for evaluating the design of the learning project is emphasized.

NOTE: Students who have received credit for ADED 340 or 341 or 343 may not take this course for credit.

ADED 345 *Evaluating Adult Learning Projects* (3 credits)

The purpose of this course is to assist participants in developing a clear working concept of

various models for assessing the effectiveness of adult learning projects. The course emphasizes a systematic approach to evaluation, techniques for collecting information and providing feedback to program operation and impact. Participants are given the opportunity to conduct an evaluation of an adult learning project in the area of subject matter speciality.

NOTE: Students who have received credit for ADED 342 or 343 may not take this course for credit.

ADED 370 *Workshops for Adult Educators*
(3 credits)

These workshops examine a number of topics and problems related to the field of adult education. The issues considered may differ from year to year and will be stated in the Undergraduate Class Schedule. The workshop format is designed to provide adult educators with learning opportunities that are flexibly scheduled or in the form of a one-week intensive seminar.

ADED 398 *Selected Topics in Adult Education*
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ADED 403 *Diversity in Adults* (3 credits)
It is the role of adult educators (agents of change) to confront issues of diversity and to challenge the forces of racism, sexism, classism, homophobia, and discrimination. By integrating notions of education, and by reflecting on the roles of practitioners, this course develops strategies to resist structural inequality and oppression.

NOTE: Students who have received credit for this topic under an ADED 498 number may not take this course for credit.

ADED 410 *Adult Education in Canada and Quebec*
(3 credits)

The purpose of this course is to examine the historical development and current state of adult education in Canada, with special reference to Quebec. Various factors which influenced the development of adult education in our society are explored; the focus is on present status, role and structure, and socio-cultural and philosophical underpinnings of the field.

ADED 412 *Concepts and Values in Adult Education* (3 credits)

This seminar is designed to encourage adult educators to reflect upon and question what one is engaged in and why. A selection of conceptual and philosophical issues underlying adult educational practice is critically examined and discussed. Attention is given to the meaning of words, the nature of ideas and values, the implications of assumptions and principles which are deemed specific in the sphere of the education of adults.

ADED 440 *Issues in the Practice of Adult Education* (3 credits)

The purpose of this seminar is to study and discuss current issues relating to the field and profession of adult education in general, along with more specific and local concerns. Group and individual interests have an important bearing on the design of this course.

ADED 496 *Integrative Internship I*
(3 credits)

Prerequisite: ADED 201; ADED 202 and 15 credits in the program. This internship is designed to assist individual students in achieving a synthesis of their own experiential learning in light of acquired knowledge, skills, values, and attitudes through the clarification of personal aims and the philosophy of adult education. Students will normally enrol in this internship near the end of their program.

NOTE: Students who have received credit for ADED 495 may not take this course for credit.

NOTE: Students will normally enrol in ADED 496 near the end of their program.

ADED 497 *Integrative Internship II* (3 credits)

Prerequisite: Successful completion of ADED 496. This internship is designed to extend the personal aims and philosophy of adult education arrived at in Integrative Internship I, and engage in a special project in an adult education facility where supervision is provided by the host institution.

NOTE: Students who have received credit for ADED 495 may not take this course for credit.

ADED 498 *Advanced Topics in Adult Education* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.100 ENGLISH

Faculty	Chair MARCIE FRANK, <i>Professor</i>	MARY ESTEVE ANDRE FURLANI LAURA GROENING MIKHAIL IOSSEL NICOLA NIXON KEVIN PASK KATE STERNS
	<i>Distinguished Professors Emeriti</i> HENRY BEISSEL HOWARD FINK PATRICIA MORLEY EDWARD PECHTER	
	<i>Professors</i> MARY DI MICHELE BINA FREIWALD JUDITH S. HERZ MICHAEL KENNEALLY	<i>Assistant Professors</i> MEREDITH EVANS JOHN MILLER OMRI MOSES DANIEL O'LEARY JONATHAN SACHS RITVA SEPPANEN MANISH SHARMA
	<i>Associate Professors</i> STEPHANIE BOLSTER TERENCE BYRNES JASON CAMLOT JILL DIDUR	<i>Scholar-in-Residence</i> JOHN STEFFLER
Location	Sir George Williams Campus J.W. McConnell Building, Room: LB 501 514-848-2424 ext. 2340	
Department Objectives	The Department of English offers studies in literature, creative writing, and composition. Literary studies encourage appreciation and critical analysis of texts in their historical, literary, and cultural contexts. The Creative Writing program allows students to learn the craft involved in the production of original literary work. Professional Writing courses develop writing skills for use in business, technical, and other professional environments. Composition courses help to develop writing skills from basic to advanced levels.	
Admission Requirements	<p>TOEFL iBT REQUIREMENT</p> <p>In order to be considered for admission to any of the programs offered by the Department of English, international applicants whose first language is not English must submit a recent TOEFL iBT score of 100 or higher with a minimum of 22 on the writing section. These tests must have been written within the past 24 months.</p> <p>ADMISSION REQUIREMENTS FOR CREATIVE WRITING COURSES AND PROGRAMS</p> <p>Creative Writing programs (Major, Minor, Honours in English and Creative Writing) are designed to develop the literary skills of students with a commitment to writing as an art form. Structured workshops guide students through the practice of their craft from introductory to advanced levels under the supervision of experienced writers. Enrolment is limited to permit constructive analysis of a student's work.</p> <p>Admission to the Creative Writing programs and courses requires approval of a creative portfolio and a letter of intent. Students wishing to enter any introductory genre course in Creative Writing (225, 226, 227) or the Creative Writing programs (Major, Minor, Honours in English and Creative Writing) must apply by submitting a letter of intent and a portfolio consisting of a maximum of 15 pages of their best writing in poetry, drama, and/or fiction (short stories or novel excerpts). For students applying to the Creative Writing programs, submission in more than one genre is required.</p> <p>Portfolios and letters of intent must be submitted directly to the English Department office. Application deadlines for students new to Concordia or in Concordia degree programs other than the BA are November 1 (for January admission) and March 1 (for September admission). Applications in these cases will be received as early as September and January, respectively. For students currently in a BA program in another discipline, the portfolio and letter of intent must be submitted by July 7 for courses starting in September and by November 7 for courses starting in January. Since student demand regularly outpaces enrolment capacity, early application is advisable in all cases.</p>	

For further details on, and updates to, admission procedures, please consult the Department of English website.

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).

REQUIREMENTS FOR ENGLISH LITERATURE PROGRAMS

All students entering the English Literature Major must take a special Composition placement test which includes a literary component. Depending on the results of the test, students will be placed according to their levels in, initially, one of ENGL 206, ENGL 207, or ENGL 212. (Some sections of ENGL 212 are specially designated for English Majors.) ENGL 212 and ENGL 213 do not count towards an English Literature or Creative Writing program, but may be claimed as general electives. The Composition requirement must be satisfied in the first year of enrolment in the program. Students should note the required introductory courses in each of the programs.

NOTE: *Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.*

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in English Literature

3 ENGL 260³

6 ENGL 261³, 262³

NOTE: The above nine credits to be taken within first 24 credits

18 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

1) Early, medieval, and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³

2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³

3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 331³, 438³, 439³, 440³, 441³

4) 19th century from ENGL 324⁶, 325⁶, 330⁶, 331³, 332³, 333³, 334³, 441³, 442³, 443³

15 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

1) Modern and contemporary from ENGL 303⁶, 336³, 337⁶, 340⁶, 341³, 345³, 346⁶, 349³, 350⁶, 351³, 354³, 355³, 359³, 446³

2) American from ENGL 360⁶, 361³, 363³, 364³, 365³, 366³, 367³, 368³, 380³, 448³, 449³, 450³

3) Canadian from ENGL 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³

4) Postcolonial from ENGL 382⁶, 383³, 386³, 387³, 388³, 454³

3 Literary Theory or History of Criticism chosen from ENGL 389³, 390³, 392³, 393³, 394³, 444³, 447³

3 ENGL 470³

12 Elective credits from ENGL 224³ through 499⁶

NOTE: *Honours students must take at least nine*

credits at the 400 level, including ENGL 470.

However, a student, in consultation with the Honours-Majors advisor may substitute another 400-level course for ENGL 470.

60 BA Specialization in English Literature

3 ENGL 260³

6 ENGL 261³, 262³

NOTE: The above nine credits to be taken within first 24 credits

15 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

1) Early, medieval, and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³

2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³

3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 331³, 438³, 439³, 440³, 441³

4) 19th century from ENGL 324⁶, 325⁶, 330⁶, 331³, 332³, 333³, 334³, 441³, 442³, 443³

18 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

1) Modern and contemporary from ENGL 303⁶, 336³, 337⁶, 340⁶, 341³, 345³, 346⁶, 349³, 350⁶, 351³, 354³, 355³, 359³, 393³, 394³, 446³

2) American from ENGL 360⁶, 361³, 363³, 364³, 365³, 366³, 367³, 368³, 380³, 448³, 449³, 450³

3) Canadian from ENGL 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³

4) Postcolonial from ENGL 382⁶, 383³, 386³, 387³, 388³, 454³

18 Elective credits from ENGL 224³ through 499⁶

42 BA Major in English Literature

- 3 ENGL 260³
- 6 ENGL 261³, 262³
- NOTE: The above nine credits to be taken within first 24 credits
- 6 Chosen from ENGL 303⁶, 337⁶ through 355³, 360⁶, 361³, 363³ through 388³
- 6 Chosen from ENGL 302³ through 394³, 398³, 399⁶, 430⁶ through 499⁶
- 6 Chosen from ENGL 302³ through 499⁶
- 15 Elective credits from ENGL 224³ through 480³, with at least three credits at the 300 or 400 level

66 BA Honours in English and Creative Writing

- 3 ENGL 260³
- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶
- 6 ENGL 261³, 262³
- 15 Chosen from the following four groups. Students must take at least three credits in three of the groups. A course may count in only one group, even if it is listed in more than one.
 - 1) Early, medieval and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³
 - 2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³
 - 3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 438³, 439³, 440³, 441³
 - 4) 19th century from ENGL 324⁶, 325⁶, 330⁶, 331³, 332³, 333³, 334³, 441³, 442³, 443³
- 6 Chosen from ENGL 425⁶, 426⁶, 427⁶
- 6 Chosen from ENGL 410⁶, 411⁶, 412⁶, 413⁶, 425⁶, 426⁶, 427⁶, 428⁶, 429³, 485³, 487³
- 6 Modern and contemporary, American and postcolonial from ENGL 303⁶, 336³, 337⁶, 340⁶, 341³, 345³, 346⁶, 349³, 350⁶, 351³, 354³, 355³, 359³, 360⁶, 361³, 363³, 364³, 365³, 366³, 367³, 368³, 380³, 382⁶, 383³, 386³, 387³, 388³, 393³, 394³, 446³, 448³, 449³, 450³, 454³
- 3 Canadian from ENGL 370⁶, 373³, 374³, 376³, 377³, 380³, 451³, 452³, 453³
- 9 Elective credits in English literature

At least three credits of course work in English literature must be at the 400 level; these three credits can coincide with fulfilling any of the other requirements.

42 BA Major in Creative Writing*

- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶
- 6 Chosen from ENGL 425⁶, 426⁶, 427⁶
- 6 Chosen from ENGL 410⁶, 411⁶, 412⁶, 413⁶, 425⁶, 426⁶, 427⁶, 428⁶, 429³, 485³, 487³

- 6 Credits in Canadian Literature
 - 12 ENGL elective credits in literature courses
- *NOTE: Students wishing to register for the Major in Creative Writing should refer to the admission requirements for Creative Writing courses and programs.*

30 Minor in Creative Writing

- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶
 - *12 Chosen from ENGL 410⁶, 411⁶, 412⁶, 413⁶, 425⁶, 426⁶, 427⁶, 428⁶, 429³, 485³, 487³
 - 6 ENGL elective credits in literature courses
- Students wishing to register for the Minor in Creative Writing should refer to the admission requirements for Creative Writing courses and programs.*
- *NOTE: At least six credits in this group must be chosen from 425⁶, 426⁶, or 427⁶*

24 Minor in English Literature

- 3 ENGL 260³
 - 21 ENGL elective credits in literature courses*
- *Students are encouraged to consult with the Department in selecting their courses.*

24 Minor in Professional Writing

- 12 ENGL 213³, 214³, 215³, 216³
 - 6 ENGL 396⁶
 - 3 Chosen from ENGL 395³, 397³
 - 3 Chosen from ENGL 233³, 390³, 395³, 397³
- *Students are encouraged to consult with the Department in selecting their courses.*

60 BA Joint Specialization in English and History

- 6 ENGL 261³, 262³
- 6 Periods before 1800 (British) from ENGL 302⁶, 304⁶ through 324⁶, 326³, 430³ through 441³
- 6 Canadian, American, and postcolonial from ENGL 360⁶, 361³, 363³ through 388³, 448³ through 454³
- 6 19th century and 20th century (British and European) from ENGL 324³, 325³, 330⁶, through 359³, 394³, 442³, 443³, 446³
- 6 Elective credits from ENGL 224³ through 499³
- 6 HIST 201³, 202³
- 6 Chosen from HIST 203³, 205³, 251³, 253³
- 6 200-300 level non-Western HIST
- 3 300-level pre-1800 Canadian, American, British, or European HIST
- 3 300-level post-1800 Canadian, American, British, or European HIST
- 6 300-400 level History elective credits

Courses

200-level courses and 300-level courses without prerequisite are open to all students and may be used as English electives unless otherwise indicated.

These courses may require students to submit all written work in English only. Please consult the Department.

Not all courses listed here are offered in a given year. The Department will make an effort to offer the 200- and 300-level courses that are required for specific programs on a regular basis. General electives (230-254) and courses at the 400 level will be offered on a rotating basis. Students should consult the Concordia University Web page and follow the links to the Department of English.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ENGL 206 *Fundamentals of Written English* (3 credits)

Prerequisite: Placement test. This course provides practice in grammar and usage, sentence structure, punctuation, paraphrasing and summarizing, paragraphing, and essay writing.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course for credit.

ENGL 207 *Essentials of Written English* (3 credits)

Prerequisite: ENGL 206 or placement test. This course provides practice in English composition and reading analysis for students who are not yet ready for ENGL 212.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206 for credit.

ENGL 208 *Introduction to English Composition and Literary Analysis* (6 credits)

Prerequisite: ENGL 207 or placement test. This course is intended for students who wish to improve their ability to engage in written analysis of fiction, poetry, drama, and literary essays.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course or English course earlier in the composition sequence for credit.

ENGL 212 *English Composition — Stage I* (3 credits)

Prerequisite: ENGL 207 or placement test. This course is intended to help students produce clear, concise, logically organized essays and reports. Emphasis is placed on purpose, organization, development, sentence structure, and diction.

NOTE 1: A GRADE OF "C-" OR HIGHER IN THIS COURSE MEETS THE UNIVERSITY WRITING TEST REQUIREMENT.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course or English course earlier in the composition sequence for credit.

ENGL 213 *English Composition — Stage II* (3 credits)

Prerequisite: ENGL 212. This course develops further the writing skills acquired in ENGL 212. The main purpose is to familiarize students with the process and techniques necessary for the preparation of research papers and academic reports.

NOTE 1: Students who have received credit for this course may not subsequently take any ESL

course or English course earlier in the composition sequence.

NOTE 2: The composition sequence also includes ENGL 396, Advanced Composition and Professional Writing.

ENGL 214 *Grammar, Usage, and Style* (3 credits)

Prerequisite: ENGL 213. This course offers a practical analysis of the conventions governing contemporary English grammar and usage, punctuation, sentence structure, and syntax. It focuses on means for identifying and analysing stylistic effectiveness and persuasive power in diverse professional situations.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–213 for credit.

ENGL 215 *Principles and Practice of Editing* (3 credits)

Prerequisite: ENGL 214. This course includes basic copy editing and techniques for eliminating errors in style, mechanics, and facts, and substantive editing for identifying structural problems and reorganizing, reworking, and rewriting documents.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–214 for credit.

ENGL 216 *Writing for Diverse Audiences* (3 credits)

Prerequisite: ENGL 214. This course examines the ways that information is presented to different audiences through writing and the interaction of texts and images. Assignments include analysis of informational and persuasive strategies in model discourses for form, content, style, and design, and the application of such techniques to developing and producing documents.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–214 for credit.

ENGL 224 *The Creative Process* (3 credits)

This course introduces students to the creative process involved in writing prose fiction, poetry, and drama, including the search for inspiration, the exploration and nurturing of the "germ" of a pattern or idea, and its development into artistic form. Course material is drawn from texts, letters, worksheets, and biographies of poets, prose writers, and playwrights, and combines lectures and discussions. While the course is not a writing workshop, students are invited to read widely, participate in discussions, and engage in some writing of poetry, fiction, or drama. The course is open to all students.

NOTE: Students who have received credit for ENGL 224 may not take this course for credit.

ENGL 225 *Creative Writing: Poetry* (6 credits)

This is an introductory workshop in the writing

of poetry. The first half of the course is an introduction to poetic forms and techniques. Required readings of poetry and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of poetry from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 226 *Creative Writing: Prose Fiction*
(6 credits)

This is an introductory workshop in the writing of prose fiction. The first half of the course is an introduction to prose forms and techniques. Required readings of fiction and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of fiction from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 227 *Creative Writing: Drama*
(6 credits)

This is an introductory workshop in the writing of plays. The first half of the course is an introduction to dramatic forms and techniques. Required readings of drama and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of drama from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 230 *Major Writers in English*
(6 credits)

This course is an introduction to major writers of British literature in their historical contexts. The survey includes such authors as Chaucer, Shakespeare, Donne, Milton, Swift, Austen, Blake, Wordsworth, Byron, the Brownings, Tennyson, Hardy, Woolf, Joyce, and Eliot.

NOTE: This course may not be taken for credit with ENGL 261 or 262. It is reserved for non-Majors.

ENGL 231 *Medieval Literature in Translation* (3 credits)

This course studies influential texts in the Western tradition written between 400 and 1500, with emphasis on the innovations in the various

genres of narrative (epic, saga, romance, tale) and erotic and ethical discourse. Texts by such writers as Marie de France, Chrétien de Troyes, Dante, and Petrarch, may be studied, as well as anonymous works such as Icelandic sagas and *The Song of Roland*.

ENGL 233 *Critical Reading* (3 credits)

This course is an introduction to the practice of close reading of selections chosen from poetry, fiction, drama, and non-literary prose with the aim of developing the skills necessary to respond to written texts.

ENGL 234 *Poetry* (3 credits)

Through a detailed examination of the various forms of poetry, this course is designed to familiarize students with the vocabulary and critical and technical concepts of the genre.

ENGL 235 *Short Fiction* (3 credits)

Through a detailed examination of the various forms of short fiction and the novella, this course is designed to familiarize students with the vocabulary, critical concepts, and history of the genre.

NOTE: Students who have received credit for ENGL 235N may not take this course for credit.

ENGL 237 *Tragedy* (3 credits)

This course is an introduction to the nature and varieties of tragic forms and sensibilities in Western literature. The course includes writers from antiquity to the present such as Sophocles, Euripides, Shakespeare, Behn, Racine, Hardy, Ibsen, Lorca, and Chopin.

ENGL 238 *Comedy* (3 credits)

This course is an introduction to the nature and varieties of comic forms and sensibilities in Western literature. The course includes writers from antiquity to the present such as Aristophanes, Cervantes, Jonson, Molière, Sterne, Gogol, Wilde, Leacock, and Amis.

ENGL 240 *Drama* (3 credits)

This course is an introduction to dramatic literature, principally in the Western tradition, and is designed to familiarize students with a selection of major works in this genre. Plays include ancient Greek dramas and works written for the stage by such writers as Aeschylus, Sophocles, Aristophanes, Shakespeare, Calderón, Webster, Racine, Molière, Büchner, Chekhov, Ibsen, Beckett, Handke, Stoppard, and Soyinka.

ENGL 241 *The Novel* (3 credits)

This course is an introduction to some major novels of the Western tradition, drawn principally from Britain, Europe, and the Americas. The course includes such authors as Cervantes, Fielding, Lady Murasaki, Austen, Goethe, Stendahl, Flaubert, the Brontës, Eliot, Melville, Dostoevsky, Kafka, Tolstoy, James, Joyce, Mann, Kundera, and Marquez.

ENGL 243 *Satire* (3 credits)

This course is an introduction to the nature, varieties, and functions of satire, including writers from antiquity to the present, such as Juvenal, Horace,

Erasmus, Swift, Voltaire, Byron, Butler, Orwell, Waugh, Spark, Richler, Vonnegut, and Atwood.

ENGL 244 *Quebec/Montreal Writing in English* (3 credits)

This course surveys the literature of Quebec written in English, with emphasis on Montreal writing. It includes such writers as F.R. Scott, MacLennan, Klein, Layton, Symons, Gallant, Richler, Cohen, Anderson, Glassco, and Mouré.

ENGL 245 *The Bible and Literature* (3 credits)

This course introduces students to the literary handling of Biblical materials and the literary uses of Biblical allusion in writings by such authors as Spenser, Milton, Bunyan, Blake, and T.S. Eliot.

ENGL 246 *Science Fiction* (3 credits)

This introductory course explores the development of science fiction from Mary Shelley to H.G. Wells to the present day. Along with works by such authors as Huxley, Clarke, Dick, Delany, Le Guin, Atwood, or Gibson, translated works by such authors as Verne, Zamyatin, and Lem may be studied.
NOTE: Students who have received credit for ENGL 246N may not take this course for credit.

ENGL 247 *Myth and Ideas in Literature* (3 credits)

This course introduces students to the sources, literary developments, and continuing function of myths that inform and shape our ideas and literature.

ENGL 249 *Children's Literature* (3 credits)

As an introductory survey of children's literature, this course includes works written primarily for adults but traditionally also read by children, works specifically written for children, as well as fairy tales and other versions of folklore and myth written or adapted for children.

ENGL 250 *Forms of Popular Writing* (3 credits)

The topic of this course varies from year to year. It investigates such forms as spy novel, detective fiction, mystery, romance, travel writing, horror, and erotica in the context of the conventions, history, and popular appeal of the genre under discussion.

ENGL 260 *Introduction to Literary Study* (3 credits)

This course introduces students to the practice of literary criticism at the university level through reading and writing about a variety of literary texts while developing the tools to analyse them in a close and critical fashion. This entails attention to the fundamentals and varieties of literary criticism — genre, rhetorical and figurative language, and narrative structure — as well as some attention to the role of theory in literary study.

ENGL 261 *British Literature to 1660* (3 credits)

Starting with selected Old English texts in translation, the course examines the literary production of the medieval period and the fifteenth to seven-

teenth centuries in Britain. Works are studied in their social and historical contexts and, where possible, in relation to the other arts. The course may discuss *Beowulf*, Chaucer, Julian of Norwich, medieval drama, Malory, Skelton, Wyatt, Spenser, the Sidneys, Shakespeare, Webster, Donne, Lanyer, Burton, Browne, and Milton.

NOTE: Students who have received credit for ENGL 230 may not take this course for credit.

ENGL 262 *British Literature from 1660 to 1900* (3 credits)

Prerequisite: ENGL 261 recommended. This course surveys literature written in Britain from the period following the Civil War and Commonwealth to the end of the Victorian era, periods traditionally labelled Neo-Classical, Romantic, and Victorian. The course considers such issues and forms as epic, mock-epic, satire, the development of the novel, the comedy of manners, the rise of the professional writer, the romantic lyric, the increasing activity of women writers, the origins of modernism, and the interrelations among the periods.

NOTE: Students who have received credit for ENGL 230 may not take this course for credit.

ENGL 298 *Selected Topics in English* (3 credits)

ENGL 299 *Selected Topics in English* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ENGL 302 *History of the English Language* (3 credits)

This course examines changes in the English language from the Anglo-Saxon era to the present, considering such matters as pronunciation, inflections, syntax, vocabulary, and social distribution.

ENGL 303 *Reading Women Writing* (6 credits)

This course offers an historical and theoretical perspective on writings by women from different periods, cultural contexts, and expressive forms. A close reading of selected novels, short stories, plays, and of polemical, poetic, and autobiographical works raises such issues as class, race, and gender; sexuality and creativity; national, collective, and individual identity; literary and political strategies of resistance; the use, transformation and subversion of literary forms; the popular and critical reception of individual works.

ENGL 304 *Chaucer* (6 credits)

This course studies major texts of Geoffrey Chaucer with emphasis on *Troilus and Criseyde* and *Canterbury Tales* in terms of the social, literary, and historical issues opened by these texts.

ENGL 305 *Studies in Medieval English Literature* (3 credits)

This course examines selected subjects in the history of Old English and Middle English

literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 310 *Sixteenth-Century Prose and Poetry* (3 credits)

This course investigates developments in non-dramatic literature from the late fifteenth century to the 1590s, through an examination of representative poems and prose works in their historical and cultural contexts. The course includes such writers as Skelton, Wyatt, Nashe, Spenser, Sidney, and Shakespeare.

ENGL 311 *Seventeenth-Century Prose and Poetry* (3 credits)

This course examines the development of prose and lyric poetry from the 1590s through the Civil War and Commonwealth periods. It considers such issues as genre, form, the representation of subjectivity and gender, the function of patronage, and the shift to a print culture. The course includes such writers as Mary Sidney, Jonson, Lanyer, Donne, Browne, Walton, Herbert, Wroth, and Marvell.

NOTE: Students who have received credit for ENGL 311N may not take this course for credit.

ENGL 316 *Spenser* (3 credits)

This course examines Spenser's works, especially *The Faerie Queene*, in relation to such topics as genre, literary tradition, and historical and cultural contexts.

ENGL 318 *English Renaissance Drama* (3 credits)

This course studies plays written in the period from the start of the English commercial theatre in 1576 until its closing in 1642, in terms of the development of dramatic forms, court and popular culture, and social history. The course includes such writers as Kyd, Marlowe, Middleton, Jonson, Caryl, Webster, and Ford.

NOTE: Students who have received credit for ENGL 318N may not take this course for credit.

ENGL 319 *Milton* (3 credits)

This course examines *Paradise Lost* and selections from Milton's early poetry, especially *Lycidas*, in the contexts of seventeenth-century writing, politics, and religion.

ENGL 320 *Shakespeare* (6 credits)

This course examines a range of Shakespearean texts in relation to such matters as dramatic and theatrical conventions, social history, poetic language, high and popular culture, critical history, and influence.

ENGL 321 *Restoration and Early Eighteenth-Century Prose and Poetry* (3 credits)

This course studies the non-dramatic writing of the period from the Restoration through the first four decades of the eighteenth century, with attention to such topics as the expansion of the reading public, the shift from a court-centred scene of literary production, the founding of the

Royal Society, and formal topics, such as developments in satire, essay, and novel. Authors may include Cavendish, Dryden, Manley, Addison, Steele, Swift, Pope, Defoe, and Fielding.

ENGL 322 *Restoration and Eighteenth-Century Drama* (3 credits)

This course examines the changing role of the theatre in English culture from the Restoration to the end of the eighteenth century. It includes examples of comedies of Manners, Heroic Tragedies, She-tragedies, Sentimental Tragedies and Sentimental comedies by such writers as Etherege, Congreve, Behn, Trotter, Cibber, Sheridan, and Goldsmith.

ENGL 323 *Literature of the Mid-Eighteenth Century* (3 credits)

This course examines the writing of the period from the 1740s to the 1780s by such authors as Sterne, Gay, Richardson, Lady Mary Wortley Montagu, Johnson, More, Gray, Collins, Gibbon, and Burke. It explores such concepts and modes as the sentimental, the epistolary, the sublime, and the writing of history and biography.

ENGL 324 *The Eighteenth- and Nineteenth-Century Novel* (6 credits)

This course surveys developments in the British novel from its origins in documentary realism, satire, and romance, including the gothic, to the emergence of the novel as a dominant literary genre. The course includes works by such writers as Defoe, Fielding, Sterne, Radcliffe, Burney, Edgeworth, Austen, Dickens, the Brontës, Eliot, and Hardy.

ENGL 325 *Literature of the Romantic Period* (6 credits)

This course examines the prose and poetry of the Romantic period (ca. 1790 to 1830s) in relation to such topics as the French Revolution, the Napoleonic wars, domestic politics, literary conventions, and the idea of the poet. Among the poets to be considered are Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Some attention may be given to such writers as Dorothy Wordsworth, De Quincey, Hazlitt, the Lambs, Austen, Scott, Mary Shelley, and Peacock.

ENGL 326 *Studies in Eighteenth-Century British Literature* (3 credits)

This course examines selected subjects in the history of eighteenth-century British literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 330 *Literature of the Victorian Period* (6 credits)

This course studies the poetry, fiction and other prose writings of such writers as Carlyle, Tennyson, the Brownings, the Brontës, Dickens, George Eliot, Newman, Ruskin, and Arnold. These works are examined in relation to such issues as class divisions, gender roles, the erosion of the authority of institutional religion,

the increasing prestige of scientific explanation, the growth of British imperial power.

ENGL 331 *Eighteenth- and Nineteenth-Century Writing by Women*
(3 credits)

This course examines the poetry, prose, and drama of such writers as Astell, Manley, Finch, Haywood, Burney, Radcliffe, Edgeworth, Austen, Wollstonecraft, Shelley, the Brontës, and Eliot in such contexts as the gendering of authorship, the making of literary history, and the uses and transformations of literary conventions.

ENGL 332 *Studies in Nineteenth-Century British Literature* (3 credits)

This course examines selected subjects in the history of nineteenth-century British literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 333 *Studies in Nineteenth-Century British Poetry* (3 credits)

This course examines selected subjects in the history of nineteenth-century poetry in Britain. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 334 *Studies in Nineteenth-Century British Prose* (3 credits)

This course examines selected subjects in the history of nineteenth-century British prose literature, including possibly non-fiction and fiction. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 336 *Late Victorian and Edwardian Writing* (3 credits)

This course investigates such matters as late Victorian art and aesthetic theory, the rise of modernism, literary experimentation, and the interrogation of traditional values. Works are selected from such writers as Butler, Pater, Wilde, James, the Rossettis, Swinburne, Morris, Meredith, Schreiner, Hardy, Conrad, and Forster.

ENGL 337 *Twentieth-Century British Literature* (6 credits)

This course examines modern and contemporary prose, poetry, and drama, and the formal, cultural, social, and political changes and upheavals of a century characterized as "the age of extremes". Works are selected from such writers as Joyce, Yeats, Mansfield, Woolf, Lawrence, Eliot, Auden, Bowen, Lessing, Hill, Hughes, Stoppard, Carter, Byatt, and Rushdie.

ENGL 340 *Modernism* (6 credits)

The congeries of experimental movements collectively identified as Modernism, flourishing from prior to World War I until World War II, renegotiated artistic conventions, revived neglected traditions, and turned attention to the primary materials of art (sound, colour, language). In painting emerged a tendency to abstraction, in music a tendency to atonality, and in literature to non-mimetic forms. Experiments abounded in disjunctive, elliptical, impressionistic, allusive, and

mythopoeic styles. Avant-garde artists organized into numerous schools, including the Imagists, Surrealists, Dadaists, Constructivists, Futurists, and Vorticists. The literature, often produced by expatriates, was cosmopolitan, elitist, and provocative. Much of the most important work, appropriately enough in an era of female enfranchisement, was written by women. It was also the "Jazz Age", the nexus of which was the Harlem Renaissance. While the course focuses on the lively cross-fertilization of British and American writing, the international scope of Modernism is also emphasized, as well as its diversity (e.g. in ballet, cinema, music, and painting).

ENGL 341 *Modern Fiction* (3 credits)

This course examines a developing international literary culture from the early twentieth century to the post-war period. Works are selected from such writers as Mann, Kafka, Proust, Stein, Camus, Borges, Nabokov, and Pynchon.

ENGL 345 *Modern Drama* (3 credits)

This course surveys the main currents of twentieth-century drama in a study of such writers as Ibsen, Chekhov, Strindberg, Lorca, Lady Gregory, Ionesco, Barnes, Beckett, Albee, Pinter, Orton, Stoppard, and Handke.

ENGL 346 *Modern European Literature*
(6 credits)

This course surveys late nineteenth- and twentieth-century plays, poems, and novels in translation, chosen from such writers as Dostoevsky, Tolstoy, Ibsen, Chekhov, Gide, Sartre, Colette, Akhmatova, Svevo, Mann, Musil, Böll, and Calvino.

ENGL 349 *Modern Poetry in English*
(3 credits)

This course studies the theory and practice of poets writing in English during the twentieth century. Examples are chosen from such writers as Yeats, Pound, Eliot, Crane, Stein, Auden, Stevens, Moore, Bishop, and Merrill, as well as from some more recent poets.

ENGL 350 *Contemporary Literature*
(6 credits)

This course examines the relation between the concepts of the contemporary and the post-modern, through an examination of such writers as Amis, Calvino, Pynchon, Rushdie, Desai, Auster, Kureishi, Winterson, Carter, DeLillo, Dove, Heaney, Wilson, Kushner, Durang, and Walcott.

ENGL 351 *Twentieth-Century Writing by Women* (3 credits)

Through fiction, personal writings, poetry, and drama, this course examines gender and its discontents in turn-of-the-century and mid-century writing, in writing of the modernist period, and in writing of the politically oriented "second wave" of feminism of the 1960s and 1970s. Its concerns include the developing representation of race, class, and sexual orientation. Works are selected from such writers as Woolf, Hurston, Nin, Plath, Rich, Rule, Walker, Morrison, Cixous, Pollock, Gordimer, and El Saadawi.

ENGL 354 *Contemporary Writing by Women* (3 credits)

This course deals with fiction, personal writings, poetry, and drama from the late 1970s to the present. Its concerns may include the challenges and possibilities of postmodernism; experiments in writing the life, writing the body, writing between genres, between cultures; collaborative writing; the uses and transformations of traditional and popular forms of writing. Works are selected from such writers as Morrison, Desai, Munro, Marlatt, Scott, Maracle, Aidoo, Winterson, Gallant, Anzaldua, and Rendell.

ENGL 355 *Joyce* (3 credits)

This course will examine Joyce's *Ulysses* in its formal, historical, and cultural contexts. Other writings of Joyce may receive some attention.

ENGL 357 *The Irish Literary Revival* (3 credits)

This course traces the origins and nature of the extraordinary literary renaissance that occurred in Ireland from the 1880s to the 1920s. It examines issues such as the rise of Irish cultural nationalism and the concomitant turn to Ireland's past, both mythic and historic, as well as the continuing influence of the Catholic Church and the British state. Writers to be studied include W.B. Yeats, Lady Gregory, J.M. Synge, James Joyce, and Sean O'Casey.

ENGL 359 *Studies in Irish Literature* (3 credits)

This course examines selected subjects in the history of Irish literature. Specific topics and prerequisites for this course are stated in the Undergraduate Class Schedule.

ENGL 360 *American Literature* (6 credits)

A survey of American literature from the colonial period into the twentieth century. Readings are drawn from such writers as Bradstreet, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, James, Douglass, Chopin, Fitzgerald, and Faulkner.

ENGL 361 *Studies in Eighteenth- and Nineteenth-Century American Literature* (3 credits)

This course examines selected subjects in the history of eighteenth- and nineteenth-century American literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 362 *Studies in Science Fiction* (3 credits)

The subject matter of this course varies. It may concentrate on a particular theme or issue, or on an important author or group of authors.

ENGL 363 *American Literature from Origins to Late Nineteenth Century* (3 credits)

This course covers the various forms of American writing — fiction, biography, autobiography, letters, poems — from colonial times to the late

19th century through the work of such writers as Bradstreet, Taylor, Edwards, Wheatley, Emerson, Thoreau, Melville, Hawthorne, Poe, Twain, Whitman, Dickinson, Douglass, and Stowe.

ENGL 364 *American Literature from the Late Nineteenth to the Mid-Twentieth Century* (3 credits)

This course studies the overlapping and related developments of naturalism, regionalism, realism, and modernism through the work of such writers as Twain, Stephen Crane, Dreiser, Chopin, Wharton, James, Fitzgerald, Hart Crane, O'Neill, Faulkner, Hemingway, Pound, Moore, Ellison, and Williams.

ENGL 365 *American Literature from Mid-Century to the Present* (3 credits)

This course considers developments in American literature since World War II through the work of such writers as Plath, Bishop, Baldwin, O'Connor, Bellow, Nabokov, Pynchon, Updike, Oates, Morrison, Barthelme, and Walker.

ENGL 366 *Studies in Twentieth-Century American Literature* (3 credits)

This course examines selected subjects in the history of twentieth-century American literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 367 *American Poetry* (3 credits)

This course considers the theory and practice of American poetry from the nineteenth century to the present through the work of such writers as Whitman, Dickinson, Robinson, Frost, H.D., Pound, Cummings, Stevens, Williams, Olson, Ginsberg, Snyder, Moore, Rukeyser, Bishop, Merrill, Rich, Ashbery, and Angelou.

ENGL 368 *African-American Literature* (3 credits)

This course provides a survey of the African-American literary tradition from Frederick Douglass to the present, giving particular attention to slave narratives, the Harlem Renaissance, the Civil Rights Movement, and contemporary writing. The course includes the prose of such writers as Toomer, Larsen, Wright, Hurston, Ellison, Baldwin, Walker, and Reed, and poetry by such writers as Hughes, Brooks, Baraka, and Morrison.

ENGL 370 *Canadian Literature* (6 credits)

This course examines the development of Canadian literature from its beginnings to the present day through a series of representative works of prose and poetry, written in or translated into English.

ENGL 373 *Nineteenth-Century Canadian Literature* (3 credits)

This course studies the literature written in Canada in a variety of genres as the country evolved from colony to nation. It explores such topics as the relations among discourse, nation building, gender, and genre.

ENGL 374 *Canadian Fiction to 1950* (3 credits)

This course studies the themes and technical

strategies of Canadian fiction from the 1890s to the mid-twentieth century by such authors as Roberts, Montgomery, Leacock, Callaghan, Ross, MacLennan, Mitchell, and Smart.

ENGL 376 *Postwar Canadian Fiction*
(3 credits)

This course studies Canadian fiction from 1950 through the mid-1960s as it incorporates the lyrical and the documentary, the universal and the regional, the traditional and the experimental. Authors may include Roy, Wilson, Buckler, MacLennan, Watson, Wiseman, Cohen, and Richler.

ENGL 377 *Contemporary Canadian Fiction*
(3 credits)

This course studies the continuity and development of Canadian fiction from the mid-1960s to the present. Authors may include Laurence, Davies, Carrier, Wiebe, Atwood, Munro, Kogawa, Shields, Gallant, and Ondaatje.

ENGL 378 *Modern Canadian Poetry*
(3 credits)

This course examines the changes in Canadian poetry from the beginning of the twentieth century to the mid-1960s by such authors as Pratt, Klein, Scott, Livesay, Birney, Page, Layton, Purdy, and Avison.

ENGL 379 *Contemporary Canadian Poetry*
(3 credits)

This course examines the development of Canadian poetry from the mid-1960s to the present by such authors as Atwood, Ondaatje, Nichol, MacEwan, Kroetsch, Webb, Kogawa, Dewdney, and Brand.

NOTE: Students who have received credit for ENGL 379N may not take this course for credit.

ENGL 380 *First Nations/North American Native Literature* (3 credits)

This course studies the native literature of Canada and/or the United States, from oral performance traditions, transcriptions and translations into English, and writing in English by such authors as Johnston, Campbell, King, Highway, Momaday, Erdrich, Allen, and Silko.

ENGL 382 *Postcolonial and World Literature* (6 credits)

A survey of literature in English from formerly colonized regions such as Africa, South Asia, North America, the South Pacific, and Caribbean. Through an examination of representative texts, the course addresses such issues as the process by which English spread throughout the world as a result of British imperialism, and the development of writing in English both before and during the period of decolonization.

ENGL 383 *African Literature* (3 credits)

This course considers how literature in English by writers from sub-Saharan Africa is embedded in the history and experience of colonization and decolonization. The course includes such authors

as Achebe, Soyinka, Saro-Wiwa, Emecheta, Okri, Armah, Aidoo, Farah, Dangarembga, Coetzee, and Gordimer. The focus is on the political and aesthetic issues raised by African writing in English.

ENGL 386 *Caribbean Literature* (3 credits)

This course explores how Caribbean literature in English from nations such as Barbados, Trinidad, Antigua, Jamaica, Grenada, St. Lucia, and Guyana is implicated in the history of slavery, colonialism, and postcolonialism. The work of such authors as Bennett, Walcott, Brathwaite, Goodison, James, Selvon, Lamming, Naipaul, Brodber, Cliff, and Kincaid is examined in relation to the writers' socio-cultural contexts and to the political and aesthetic issues raised by their texts.

ENGL 387 *South Asian Literature* (3 credits)

This course studies literature from South Asia written in English by authors from India, Pakistan, Bangladesh, and Sri Lanka, such as Rushdie, Anand, Das, Narayan, Ghosh, Desai, Chaudhuri, Markandaya, Sahgal, Salvaduri, Sidhwa, Rao, and Mistry. The focus is on the significance of precolonial, colonial, and postcolonial socio-cultural concerns as expressed in a variety of literary genres. Attention is given to English as a tool of colonization as well as a means for critiquing cultural hegemony.

ENGL 388 *Literature from Australia and New Zealand* (3 credits)

This course examines literature in English from Australia and New Zealand by such writers as White, Malouf, Jolley, Carey, Stead, Mudrooroo, Stow, Johnson, Frame, Hulma, Wedde, and Kenneally. Central to the course is a discussion of the impact of colonialism, and the ongoing relationship between settler and aboriginal communities as it inflects a variety of literary genres. Literature from the Pacific islands may also be considered.

NOTE: Students who have received credit for ENGL 388N may not take this course for credit.

ENGL 389 *History of Criticism and Literary Theory* (3 credits)

This course surveys and contrasts major theories of criticism, with attention to methodologies and historical contexts. Texts are chosen from such representative theorists as Plato, Aristotle, Augustine, Lessing, Bakhtin, and in English Sidney, Dryden, Johnson, Coleridge, Arnold, Eliot, Woolf, Empson, Burke, and Frye.

ENGL 390 *Studies in Rhetoric* (3 credits)

This course offers an inquiry into the nature and function of rhetoric, the art of convincing others, through an examination of such influential classical writers as Aristotle, Cicero, and Quintilian, as well as the place of rhetoric in contemporary critical discourse. This course offers, through written exercises, practical experience in the development of rhetorical techniques.

NOTE: Students who have received credit for ENGL 390N may not take this course for credit.

ENGL 392 *Aspects of Criticism and Literary Theory* (3 credits)

This course examines selected subjects in criticism and literary theory.

ENGL 393 *Gender and Sexuality in Literary Studies* (3 credits)

This course examines the development of the terms "gender" and "sexuality" as categories of historical analysis and literary interpretation by reading feminist and queer theories of gender and sexuality such as those of Rubin, Butler, Sedgwick, and Foucault alongside a range of historical and contemporary literary texts.

NOTE: Students who have received credit for ENGL 445 may not take this course for credit.

ENGL 394 *Contemporary Critical Theory* (3 credits)

This course introduces students to various interpretive strategies in contemporary critical theory, through a study of such topics as structuralism, narratology, debates about genealogy, deconstruction, psychoanalytic theory, gender and performativity. Readings may include texts by Nietzsche, Saussure, Barthes, Foucault, Derrida, Eco, Austin, Cixous, and Sedgwick.

NOTE: Students who have received credit for ENGL 394N may not take this course for credit.

ENGL 395 *Technical Writing* (3 credits)

Prerequisite: ENGL 214, 215, 216. This course examines written and visual strategies for communicating information in technical fields. Practice includes experience in audience analysis and visual design in the preparation of such documents as technical abstracts, reports, proposals, descriptions, and instructional manuals.

NOTE 1: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–216 for credit.

NOTE 2: Students who have received credit for ENGL 395N may not take this course for credit.

ENGL 396 *Advanced Composition and Professional Writing* (6 credits)

Prerequisite: ENGL 213 or placement test. This course is intended for students already in control of the essentials of composition who wish to develop their ability to write effectively for business and professional purposes.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–213 for credit.

ENGL 397 *Business Writing* (3 credits)

Prerequisite: ENGL 214, 215, 216. This course examines written and visual strategies for communicating information in business contexts. Practice includes experience in audience analysis and visual design in the creation of such business documents as letters, memos, minutes, brochures, press releases, and company newsletters.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–216 for credit.

ENGL 398 *Selected Topics in English* (3 credits)

ENGL 399 *Selected Topics in English* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ENGL 410 *Creative Non-Fiction Writing* (6 credits)

Prerequisite: ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the writing of creative non-fiction (journal, personal essay, travel, biography and autobiography) including the reading of selected texts and discussion and criticism of students' work.

ENGL 411 *Script Writing for Radio, Screen, and Television* (6 credits)

Prerequisite: ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the composition and development of creative scripts for radio, screen, and television. In any one year, the course may concentrate on one or two of these areas.

ENGL 412 *Writing of Children's Literature* (6 credits)

Prerequisite: ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the writing of prose, poetry, and drama for children, including an exploration of the literary techniques appropriate to the sensibilities of children.

ENGL 413 *Publishing and Editing* (6 credits)

Prerequisite: ENGL 225 or 226 or 227, or permission of the Department. This course explores such topics as the process of founding and operating small presses or magazines, producing anthologies, and editing individual manuscripts and books.

ENGL 425 *Advanced Creative Writing: Poetry* (6 credits)

Prerequisite: ENGL 225 or permission of the Department. Through intensive analysis and discussion of students' work, experimentation with a variety of forms, and selected reading, this workshop helps students extend their grasp of poetics and their competence in the writing of poetry.

ENGL 426 *Advanced Creative Writing: Prose Fiction* (6 credits)

Prerequisite: ENGL 226 or permission of the Department. Through intensive analysis and discussion of submitted work and directed reading in modern fiction, this workshop extends the development of students' narrative skills and their understanding of fictional forms.

ENGL 427 *Advanced Creative Writing: Drama* (6 credits)

Prerequisite: ENGL 227 or permission of the

Department. Through reading of contemporary playwrights and intensive discussion and analysis of submitted work, this workshop helps students refine their skills in the process of completing a full-length play.

ENGL 428 *Advanced Studies in Creative Writing* (6 credits)

Prerequisite: ENGL 225 or 226 or 227, and one 400-level creative writing workshop, or permission of the Department.

ENGL 429 *Advanced Studies in Creative Writing* (3 credits)

Prerequisite: ENGL 225 or 226 or 227, and one 400-level creative writing workshop, or permission of the Department.

These courses are advanced workshops whose subject and format are announced in the English Department Course Guide. These courses are intended for those who have already completed several workshops. Submission of a brief portfolio may be required for admission.

ENGL 430 *Old English* (6 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the language, literature, and culture of the Anglo-Saxon era, including such texts as elegaic lyrics and sections of *Beowulf*.

ENGL 432 *Middle English* (6 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the variety of texts in English dialects from 1200 to 1500, including such works as *Sir Gawain and the Green Knight* and other romances, *Piers Plowman*, *Pearl*, the *Showings* of Julian of Norwich, other religious and social discourse, lyrics, and drama.

ENGL 434 *Advanced Studies in Early English Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 435 *Women Writers of the Early Modern Period* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course examines the emergence into print of women writers from the late sixteenth to the late seventeenth centuries, by exploring such issues as the construction of literary history, histories of gender and sexuality, the relations between gender and genre. Works are chosen from such writers as Sidney, Sowernam, Wroth, Cary, Lanyer, Philips, Cavendish, Behn, Killigrew, Manley, and Trotter.

ENGL 436 *Literature of the Civil War and Commonwealth Period* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the

prose and poetry of the 1630s through the 1650s. It explores the ways in which the Civil War was represented by such writers as Herrick, Suckling, Cowley, Bradstreet, Milton and Marvell. Political tracts, journalism, and private papers and diaries may also form part of the material of the course.

ENGL 437 *Advanced Studies in Renaissance and Early Modern Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 438 *History, Politics, and Literature in the Eighteenth Century* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course examines the relations among the categories of history, politics, and literature, and their development as distinct discourses over the course of the century, through a study of such topics as the status of religion, the rise of science, the expansion of empire, the development of aesthetic discourse, and the construction of the category of the neoclassical.

ENGL 439 *The Rise of Criticism and Literary History* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course traces the joint development of the discourses of literary criticism and literary history from 1660 to the legislation assigning copyright to authors in the late eighteenth century. Examples are drawn from such writers as Dryden, Dennis, Addison, Shaftesbury, Hume, and Johnson.

ENGL 440 *Advanced Studies in Late Seventeenth- and Eighteenth-Century Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 441 *Forms of Eighteenth- and Nineteenth-Century Fiction* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course may focus on a single writer, a type of fiction such as the gothic or the epistolary, or a particular issue in the development of the novel, such as realism or the emergence of women's fiction.

ENGL 442 *Comparative Nineteenth-Century Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies literary developments in the United Kingdom, the United States, and Canada, including such issues as Romanticism, the development of national literatures, conceptions of place and landscape, and responses to cultural change.

**ENGL 443 *Advanced Studies in
Nineteenth-Century Literature***
(3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

**ENGL 444 *Advanced Studies in Gender
and Sexuality*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar in the study of theories of gender and sexuality as they can be used in the interpretation of historical and/or contemporary texts.

NOTE: Students who have received credit for ENGL 445 may not take this course for credit.

**ENGL 446 *Advanced Studies in
Twentieth-Century Writing***
(3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

**ENGL 447 *Advanced Studies in Literary
Theory*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 448 *The American Renaissance*
(3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course examines both the twentieth-century critics who established and developed the concept of the American Renaissance, and the group of antebellum authors who were chosen as its exemplars, including Emerson, Melville, and Whitman. It also interrogates contemporary critical revisions of that canon, broaching the larger issue of canon formation.

ENGL 449 *The American Postmodern*
(3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course focuses on postmodern American writers in the context of the critical debates about what constitutes the postmodern: formally, generically, and politically. It considers such writers as Antin, Ashbery, Waldman, Pynchon, Barthelme, Barth, Acker, Ford, and Morrison.

**ENGL 450 *Advanced Studies in American
Literature*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. A seminar on a selected topic, text, or author. Specific content varies from year to year.

**ENGL 451 *History and Ideology in
Canadian Literature*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the treatment in Canadian literature of

such historical and political events, issues, and ideologies as the Conquest, the railroad, the threat of American domination, immigration, and the Canadian west.

**ENGL 452 *Recent Experiments in
Canadian Writing*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies contemporary writing that breaks with or interrogates traditional literary genres and forms. Examples are drawn from such authors as Kroetsch, Marlatt, Ondaatje, Highway, Dewdney, Mouré, and Nichol.

**ENGL 453 *Advanced Studies in Canadian
Writing*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

**ENGL 454 *Advanced Studies in
Postcolonial Writing*** (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 470 *Honours Seminar* (3 credits)

Prerequisite: Enrolment in Honours English Literature and 30 credits in English. The topic of this course varies from year to year. The course provides the opportunity for final-year Honours students to apply their experience of literature, literary theory, and criticism on a more advanced level.

NOTE: In consultation with the Honours/Majors advisor, Honours students may substitute another course at the 400 level for ENGL 470.

ENGL 474 *Honours Essay* (3 credits)

Prerequisite: Enrolment in Honours English Literature and 30 credits in English. With the permission of the Department, an Honours student may arrange a tutorial program with a faculty member, culminating in the writing of a long paper.

ENGL 480 *Independent Studies* (3 credits)

Prerequisite: Enrolment in an English program and nine credits at the 300 level. With the permission of the Department, a student may arrange a tutorial program with a faculty member.

ENGL 485 *St. Petersburg Workshops*
(3 credits)

Prerequisite: Permission of the Coordinator of Creative Writing, or designate. This course, held in St. Petersburg, Russia, offers intensive three-week workshops in the writing of either fiction, poetry, or drama, and includes an exploration of narrative forms and techniques, discussion and written criticism of students' work, and a lecture series. Students are expected to read widely and to submit their own work for discussion and analysis. Grading is based on participation, and on submission of a final portfolio and an essay.

ENGL 487 *Nairobi Workshops* (3 credits)
Prerequisite: Permission of the Coordinator of Creative Writing, or designate. This course, held in Nairobi, Kenya, offers intensive two-week workshops in the writing of either fiction, poetry, or drama, and includes an exploration of narrative forms and techniques, discussion and written criticism of students' work, and a lecture series. Students are expected to read widely and to submit their own work for discussion and analysis. Grading is based on participation, and on submission of a final portfolio and an essay.

ENGL 490 *Joint Tutorial in History and English* (6 credits)
Prerequisite: Enrolment in an English program or nine credits in English Literature. A tutorial for students in an English and History Joint Specialization program.

ENGL 498 *Advanced Topics in English*
(3 credits)

ENGL 499 *Advanced Topics in English*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.110 ÉTUDES FRANÇAISES

Corps professoral	<p><i>Directeur</i> OLLIVIER DYENS, <i>Professeur agrégé</i></p> <p><i>Professeures titulaires et professeurs titulaires</i> JEAN-MARC GOUANVIC DAVID GRAHAM CLAIRE LE BRUN-GOUANVIC LUCIE LEQUIN SHERRY SIMON MARIE-FRANCE WAGNER</p> <p><i>Professeures et professeurs agrégés</i> PAUL BANDIA PHILIPPE CAIGNON BENOÎT LÉGER SOPHIE MARCOTTE FRANÇOISE NAUDILLON</p>	<p><i>Professeures adjointes et professeurs adjoints</i> PAULA BOUFFARD PIER-PASCALE BOULANGER MARC ANDRÉ BROUILLETTE SYLVAIN DAVID DEBORAH FOLARON DJAOUIDA HAMDANI KADRI PATRICK LEROUX DENIS LIAKIN GENEVIÈVE SICOTTE NATALIA TEPLOVA</p> <p><i>Chargées et chargés d'enseignement</i> CHANTAL GAGNON SVETLA KAMENOVA FABIEN OLIVRY</p>
Localisation	<p><i>Campus Sir George Williams</i> J.W. McConnell, Salle : LB 601 514-848-2424 ext. 7500/7509</p>	
Objectifs du département	<p>L'appellation Études françaises reflète le concept pluridisciplinaire sur lequel se fondent les deux volets de notre mission universitaire : l'enseignement et la recherche. La recherche pure et appliquée se pratique dans les domaines les plus variés de la discipline en étroite liaison avec l'enseignement. De plus, nous participons à la vie intellectuelle et professionnelle de la collectivité, à l'échelle nationale et internationale.</p> <p>Le Département d'études françaises a une double vocation. Il offre d'une part de solides programmes de langue, littérature, traduction et rédaction aux étudiantes et étudiants qui viennent y chercher une formation spécialisée. Il joue d'autre part un rôle capital au sein de l'Université en offrant un vaste éventail de cours de langue, linguistique, littérature et civilisation aux étudiantes et étudiants qui souhaitent compléter la formation qu'elles ou ils reçoivent dans d'autres départements.</p>	
Programmes	<p><i>Il appartient à chaque étudiante et étudiant de remplir toutes les conditions requises dans son programme. L'exposant 3 ou 6 indique le nombre de crédits.</i> <i>N.B. : Chaque candidate et candidat aux programmes de traduction ou de rédaction professionnelle doit inclure à son dossier une lettre d'intention rédigée dans sa langue principale, soit le français pour l'étudiante ou l'étudiant en rédaction.</i> <i>N.B. : Avant de s'inscrire, les étudiantes et étudiants devront faire approuver leur programme par un membre désigné du département.</i></p> <p>60 BA Spécialisation en études françaises <i>N.B. : Les principaux critères de classement sont la langue d'enseignement des études secondaires, les notes obtenues et les résultats du test d'auto-évaluation du département. Pour obtenir leur diplôme, les étudiantes et étudiants doivent suivre tous les cours du programme dans la voie (A ou B) où ils sont inscrits.</i> A. Pour les étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français : 18 crédits choisis parmi les suivants : FRAN 301⁶, 302³, 303³, 306³, 320³, 321³, FRAA 410³, 411³, 412³, 413³ 15 crédits FLIT 300³, 302³, 303³, 305³, 308³ 27 crédits choisis parmi les autres cours de littérature du département de niveaux 300 et 400, et FTRA 304³</p> <p>B. Pour les étudiantes et étudiants ayant effectué leurs études secondaires en français : 12 crédits choisis parmi les suivants : FRAA 400³, 401³, 403³, 404³, 410³, 411³, 412³, 413³, 420³, 421³, 422³, 423³, 430³, 431³, 432³ 15 crédits FLIT 300³, 302³, 303³, 305³, 308³ 33 crédits choisis parmi les autres cours de littérature du département de niveaux 300 et 400, et FTRA 304³</p> <p>45 BA Majeure en études françaises <i>Option : Langue ou littératures de langue française</i> <i>N.B. : Les principaux critères de classement sont la langue d'enseignement des études secondaires, les notes obtenues et les résultats du test d'auto-évaluation du département. Pour</i></p>	

obtenir leur diplôme, les étudiantes et étudiants doivent suivre tous les cours du programme dans la voie (A ou B) où ils sont inscrits.

A. Option : Langue ou littératures de langue française : français langue seconde

Pour les étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français :

Tronc commun

- 18 crédits à choisir parmi les cours FRAN 213⁶ (ou 214³ et 215³), 219³, 221³, 301⁶, 302³, 303³, 305³, 306³, 320³, 321³; FRAA 410³, 411³, 412³, 413³

- 6 crédits à choisir parmi les cours FLIT 220³, 230³, 240³, 250³, 298³

Volet langue

- 21 crédits choisis parmi les cours FRAN 318³, 319³, 320³, 321³; FRAA 400³, 401³, 403³, 404³, 405³, 409³, 410³, 411³, 412³, 413³, 420³, 421³, 422³, 423³, 430³, 431³, 432³ OU

Volet littérature

- 21 crédits FLIT choisis parmi les autres cours de littérature du département

B. Option : Langue ou littératures de langue française

Pour les étudiantes et étudiants ayant effectué leurs études secondaires en français :

Tronc commun

- 15 crédits à choisir parmi les cours FRAN 306³, 320³, 321³; FRAA 410³, 411³, 412³, 413³, 423³

- 9 crédits à choisir parmi les cours FLIT 300³, 302³, 308³ ou 303³, 305³, 308³, 382³

Volet langue

- 21 crédits choisis parmi les cours FRAN 320³, 321³; FRAA 400³, 401³, 403³, 404³, 405³, 409³, 410³, 411³, 412³, 413³, 420³, 421³, 422³, 423³, 430³, 431³, 432³; FTRA 304³; ou parmi 6 crédits FLIT OU

Volet littérature

- 21 crédits choisis parmi les autres cours FLIT du département de niveaux 300 et 400 et FTRA 304³

45 BA Majeure en études françaises

Option : Rédaction professionnelle

N.B. : Cette majeure est destinée à celles et ceux qui possèdent déjà une bonne maîtrise du français et qui souhaitent acquérir une formation professionnelle en rédaction. La majeure débute au niveau 400. L'étudiante ou l'étudiant dont le résultat au test d'évaluation du département n'atteint pas le niveau nécessaire pourra s'y préparer en suivant, hors majeure, un maximum de 12 crédits de niveau 300, choisis parmi FRAN 301⁶, 302³, 303³, 306³, 318³, 319³, 320³, 321³.

1^{re} étape

- 12 crédits FRAA 410³, 411³, 412³, 413³
3 crédits à choisir parmi les cours FTRA 204³, FRAA 403³, 404³

2^e étape

- 12 crédits FRAA 420³, 421³, 422³, 423³
3 crédits à choisir parmi les cours FLIT de niveau 300 et plus

3^e étape

- 12 crédits FRAA 430³, 431³, 432³, 493³
3 crédits à choisir entre les cours FRAA 440³, 441³ et FLIT de niveau 400

48 BA Majeure en études françaises

Option : Traduction

Les étudiantes et étudiants inscrits à un programme de traduction doivent remettre leurs travaux en français dans les cours de littérature.

1^{re} étape

- 6 crédits ENGL 212³ et 213³
6 crédits à choisir parmi les cours FRAN 301⁶ ou 302³ et 303³; FRAN 321³; FRAA 410³, 411³, 412³, 413³

2^e étape

- 6 crédits en littérature française de niveau 300 ou 400
6 crédits à choisir parmi les cours FRAN 306³ et 321³; FRAA 410³, 411³, 412³, 413³, 423³
9 crédits FTRA 200³, et FTRA 201³ et 207³ ou FTRA 202³ et 208³

3^e étape

- 6 crédits à choisir parmi les cours FTRA 203³ ou 204³, 301³ ou 304³, 305³ ou 306³, 310³, 403³ ou 404³, 405³ ou 406³, 408³
3 crédits à choisir parmi les cours FTRA 412³ et 414³
6 crédits en littérature d'expression anglaise

24 Mineure en langue française

- 24 crédits de langue, choisis dans un ordre accepté par le département, parmi les cours suivants :

- Un maximum de 18 crédits à choisir parmi les cours FRAN 213⁶, 214³, 215³, 219³, 221³, 301⁶, 302³, 303³, 305³, 306³, 318³, 319³, 320³, 321³; FLIT 230³, 240³
- Un minimum de six crédits à choisir parmi les cours FRAN 321³; FRAA 400³, 401³, 404³, 405³, 409³, 410³, 411³, 412³, 413³, 420³, 421³, 422³, 423³, 430³, 432³

24 Mineure en littératures de langue française

- 24 crédits en littératures de langue française choisis en consultation avec le département

30 Certificat en langue française

Ce programme est accessible soit aux vrais débutants soit à des personnes qui ont déjà une certaine connaissance du français. Dans les deux cas, il permettra d'accéder à un niveau relativement avancé de communication et d'expression en français.

- 30 crédits FRAN, choisis à un niveau et dans un ordre acceptés par le département,
• 18 crédits FRAN 211⁶, 212⁶, 213⁶ (ou 214³ et 215³), 219³, 221³, 301⁶ (ou 302³ et 303³), 305³, 306³, 320³, 321³

• 12 crédits FRAN 301⁶ (ou 302³ et 303³),
305³, 306³, 320³, 321³; FRAA 405³, 410³,
411³, 412³, 413³

N.B. : Ce certificat exige normalement plus d'une
année de scolarité.

Programme de
traduction (formule
standard et coopérative)

66 BA Spécialisation en traduction

N.B. : 1. Le BA Spécialisation en traduction (formule standard et formule coopérative) est un programme contingenté. Comme il demande une excellente connaissance du français et de l'anglais, les étudiantes et étudiants admis devront subir des tests de placement dans les deux langues. Les cours FTRA sont réservés en priorité aux étudiantes et étudiants inscrits dans les programmes de traduction.

2. Le programme de BA Spécialisation en traduction se présente sous deux formules : la formule standard et la formule coopérative. Les conditions d'admission au BA spécialisé en traduction de formule coopérative comprennent, outre celles du programme spécialisé standard, d'autres filtres du type lettre d'intention, examen écrit, entrevue. La formule coopérative comprend les mêmes cours, en nombre et en nature, que la formule standard; cependant, la séquence des cours varie et trois stages rémunérés de quatre mois chacun, viennent s'ajouter et alternent avec les sessions d'étude (voir calendrier ci-après). Ces stages se déroulent au sein de services linguistiques et sont consacrés à des tâches en traduction ou dans l'un des domaines connexes : rédaction, terminologie, documentation, etc.

Année	Automne	Hiver	Été
1	Cours I	Cours II	Cours III
2	Stage I	Cours IV	Stage II
3	Cours V	Stage III	Cours VI

Les étudiantes et étudiants du programme coopératif sont encadrés chacune et chacun personnellement et doivent satisfaire aux exigences de la Faculté des arts et des sciences et de l'Institut d'enseignement coopératif pour se maintenir dans le programme coopératif. La liaison entre l'étudiante ou l'étudiant, les employeurs et l'Institut d'enseignement coopératif est du ressort du comité du programme coopératif en traduction du Département d'études françaises.

Pour plus de renseignements sur l'Institut d'enseignement coopératif, voir la §24 de cet annuaire.

3. Le programme comporte deux options : la traduction du français vers l'anglais ou de l'anglais vers le français. Normalement, l'étudiante ou l'étudiant choisira l'une ou l'autre de ces deux options. Dans de rares cas, certaines candidates et certains candidats pourront satisfaire aux exigences des deux options.

4. Les étudiantes et étudiants du programme de BA Spécialisation en traduction doivent obtenir une note minimale de C dans tous les cours de traduction. Si la note obtenue est inférieure à C, les étudiantes et étudiants devront reprendre le cours dans l'année qui suit. Une seule reprise est permise. Si cette exigence n'est pas satisfaite ou en cas d'échec, les étudiantes et étudiants seront radiés du programme. En cas de probation ou de radiation, les étudiantes et étudiants recevront un avis écrit de la direction du département.

5. Les étudiantes et étudiants inscrits à un programme de traduction doivent remettre leurs travaux en français dans les cours de littérature.

Option A : français-anglais

1^{re} étape

- 6 crédits à choisir parmi les cours
FRAA 410³, 412³ ou 413³
N.B. : Une étudiante ou un étudiant qui,
à l'examen d'admission, n'a pas obtenu
une note lui permettant de suivre les
cours de niveau 400 peut s'inscrire au(x)
cours FRAN 301⁶ ou 302³ et 303³ ou 306³
ou 321³ et suivre les cours ci-dessus en
2^e année au plus tard.

- *6 crédits ENGL 212³ et 213³ ou 396⁶
6 crédits en littératures de langue française
de niveau 300 ou 400
6 crédits en littératures de langue anglaise
9 crédits FTRA 200³, 201³ et 207³
2^e étape
12 crédits FTRA 203³, 301³, 305³ et 310³
6 crédits de linguistique choisis en
consultation avec la conseillère
pédagogique ou le conseiller pédagogique

3^e étape

- 6 crédits à choisir parmi les cours
FTRA 401³, 403³, 405³, 408³, 417³
3 crédits FTRA 409³
3 crédits à choisir entre les cours
FTRA 412³ et 414³
3 crédits à choisir parmi FTRA 416³, 452³,
455³, 458³

Option F : anglais-français

1^{re} étape

- 6 crédits à choisir parmi les cours
FRAA 410³, 412³, 413³, 423³, 430³, 431³,
432³
*6 crédits ENGL 212³ et 213³ ou 396⁶
N.B. : Une étudiante ou un étudiant qui
n'est pas admissible au cours ENGL 212³
peut s'inscrire aux cours ESL 209³ et 210³ ou
ENGL 206³ et suivre les cours ENGL 212³
et 213³ en 2^e année au plus tard.

- | | |
|---|--|
| 9 crédits en littératures de langue française de niveau 300 ou 400 | 3 ^e étape |
| 3 crédits au choix parmi les cours de littérature de langue française FLIT 447 ³ ou 449 ³ , ou parmi les cours FRAA 421 ³ , 423 ³ , 430 ³ , 431 ³ | 6 crédits à choisir parmi les cours FTRA 402 ³ , 404 ³ , 406 ³ , 408 ³ |
| 9 crédits FTRA 200 ³ , 202 ³ et 208 ³ | 3 crédits FTRA 410 ³ |
| 2 ^e étape | 3 crédits à choisir entre les cours FTRA 412 ³ et 414 ³ |
| 12 crédits à choisir parmi les cours FTRA 204 ³ , 304 ³ , 306 ³ , 310 ³ | 3 crédits à choisir parmi les cours FTRA 416 ³ , 452 ³ , 455 ³ , 458 ³ |
| 6 crédits en linguistique à choisir entre FRAA 400 ³ , 401 ³ , 403 ³ , 404 ³ , 421 ³ , 422 ³ | |

**L'étudiante ou l'étudiant peut comptabiliser les 6 crédits d'ENGL 212³ et 213³ ou 396⁴ dans les 24 crédits à réaliser hors département. Dans ce cas, pour les remplacer il devra effectuer 6 crédits parmi ceux offerts au département.*

Cours

Les cours du département ayant reçu de nouveaux numéros, les étudiantes et étudiants trouveront une liste d'équivalences à la section 200.1.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Si une étudiante ou un étudiant s'inscrit à un cours de langue d'un niveau inférieur ou supérieur à ses connaissances, le département se réserve le droit de lui demander de s'inscrire à un cours d'un niveau plus approprié.

In cases where students are enrolled in language classes which do not match their linguistic skills, the Department reserves the right to advise them to transfer into a class at a more appropriate level.

Langue

• Français langue seconde

FRAN 211 *French Language: Elementary* (6 crédits)

This course is restricted to students having no previous training in French. It includes a comprehensive introduction to the basic structures and vocabulary of French and should enable students to acquire an ability to speak and understand simple conversational French. Both oral and written aspects of the language are presented, with special emphasis on oral skills. Laboratory sessions are included.

NOTE: Students who have received credit for FRAN 200 or FRAN 201 may not take this course for credit.

FRAN 212 *French Language: Transitional Level* (6 crédits)

Prerequisite: FRAN 211 or equivalent. The aim of this course is to provide students who have studied either one year of French at the university or post-secondary level, or two years of French at the secondary level or equivalent, with an opportunity to improve their levels of comprehension and expression so that they will be able to communicate with greater ease in written and oral French. Students will expand their repertory of linguistic structures and vocabulary through in-class directed conversation groups, homework, oral lab, and written exercises. Laboratory sessions are included.

FRAN 213 *Langue française : niveaux intermédiaires I et II* (6 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours

s'adresse aux étudiantes et étudiants ayant suivi soit quatre ans de français à l'école secondaire, soit deux ans de français au niveau collégial, soit 12 crédits de français à l'université, ou l'équivalent. Par un apprentissage et approfondissement de mécanismes grammaticaux, du vocabulaire, de techniques de compréhension et production écrites et orales, l'étudiant sera amené à développer les compétences nécessaires pour communiquer avec aisance en français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 204 ou 205 ou 214 ou 215 ne peuvent obtenir de crédits pour ce cours.

FRAN 214 *Langue française : niveau intermédiaire I* (3 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours s'adresse aux étudiantes et étudiants ayant suivi soit quatre ans de français à l'école secondaire, soit deux ans de français au niveau collégial, soit 12 crédits de français à l'université, ou l'équivalent. Par un apprentissage et approfondissement de mécanismes grammaticaux, du vocabulaire, de techniques de compréhension et production écrites et orales, l'étudiant sera amené à développer les compétences nécessaires pour communiquer avec aisance en français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 204 ou 213 ne peuvent obtenir de crédits pour ce cours.

FRAN 215 *Langue française : niveau intermédiaire II* (3 crédits)

Préalable : FRAN 214 ou l'équivalent. Ce cours est la suite du FRAN 214. Il vise à donner à l'étudiant une plus grande aisance dans son utilisation du français oral et écrit. Les travaux prendront la forme d'exercices variés de grammaire, de vocabulaire, de compréhension et production de

textes écrits, et d'interaction orale.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 205 ou 213 ne peuvent obtenir de crédits pour ce cours.

FRAN 219 *Initiation au français écrit*
(3 crédits)

Préalable : FRAN 213 ou l'équivalent. Ce cours de niveau intermédiaire s'adresse à des étudiantes et étudiants qui ont une bonne compétence en communication orale en français et qui désirent renforcer leur compétence en communication écrite. Il a principalement pour objectif d'amener les étudiantes et les étudiants à consolider leurs connaissances de la structure de la phrase de base et de ses transformations, et à enrichir leur vocabulaire. Les étudiantes et les étudiants seront également initiés à la composition de textes divers et à deux techniques d'expression : le plan et le résumé.

FRAN 221 *Correction phonétique*
(3 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours s'adresse à des étudiantes et des étudiants dont la langue maternelle n'est pas le français et qui souhaitent améliorer leur prononciation. Une approche systématique, qui combine des activités de perception et d'articulation allant des sons isolés à la phrase, leur permettra d'acquérir et de mettre en pratique les règles de la phonétique française (prononciation, liaison, intonation).

FRAN 298 *Étude d'un sujet particulier*
(3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

FRAN 301 *Langue française : niveaux d'approfondissement I et II*
(6 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours d'approfondissement est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression écrite et orale. Le cours est essentiellement axé sur la pratique de la lecture, sur la compréhension de textes et de documents audiovisuels, ainsi que sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 302 ou 303 ne peuvent obtenir de crédits pour ce cours.

FRAN 302 *Langue française : niveau d'approfondissement I*
(3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours de français, niveau d'approfondissement I, est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression orale et écrite. Le cours est essentiellement axé sur la pratique de la lecture, sur la compréhension de textes et de documents audiovisuels, ainsi que

sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 301 ne peuvent obtenir de crédits pour ce cours.

FRAN 303 *Langue française : niveau d'approfondissement II*
(3 crédits)

Préalable : FRAN 302 ou l'équivalent. Ce cours de français, niveau d'approfondissement II, est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression écrite et orale. Le cours est essentiellement axé sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 301 ne peuvent obtenir de crédits pour ce cours.

FRAN 305 *Communication orale* (3 crédits)

Préalable : FRAN 213 ou l'équivalent. Ce cours s'adresse à des étudiantes et des étudiants non francophones qui souhaitent améliorer les aptitudes nécessaires à une communication orale efficace en français. Des présentations théoriques et des activités pratiques exploitant des situations de communication variées leur permettront d'acquérir une plus grande aisance et de mieux organiser leur discours. Des activités d'écoute basées sur des documents authentiques leur permettront d'augmenter leur capacité de compréhension en français.

FRAN 306 *Communication écrite*
(3 crédits)

Préalable : FRAN 301, 303 ou l'équivalent. Acquisition des techniques nécessaires à la rédaction. Étude des différents styles de langue écrite par opposition à ceux de la langue parlée. Pratique de l'analyse et du commentaire de texte.

FRAN 318 *Le français des affaires I*
(3 crédits)

Préalable : FRAN 306 ou l'équivalent. Le cours vise à initier l'étudiante ou l'étudiant à la correspondance commerciale. L'accent est mis sur l'acquisition de termes et tournures propres au français des affaires, étayée par une révision de la langue (grammaire, stylistique, vocabulaire, anglicismes). Au moyen de documents authentiques, de modèles de lettres d'affaires, d'exercices d'application en classe et au laboratoire, l'étudiante ou l'étudiant développera les aptitudes nécessaires aux échanges épistolaires efficaces dans le monde économique et commercial francophone.

FRAN 319 *Le français des affaires II*
(3 crédits)

Préalable : FRAN 306 ou l'équivalent. Ce cours vise à faire acquérir à l'étudiante ou l'étudiant l'habileté à rédiger des textes administratifs dans le domaine des affaires. La révision du français (grammaire, stylistique, vocabulaire, anglicismes) fait également partie des objectifs du cours.

Par l'étude de documents authentiques et la rédaction de textes administratifs, l'étudiante ou l'étudiant se familiarisera avec l'écriture professionnelle en affaires.

FRAN 320 *Le vocabulaire français*
(3 crédits)

Préalable : FRAN 303 ou l'équivalent. Ce cours propose une présentation méthodique des divers aspects du vocabulaire français. Il comporte quatre parties : introduction générale et présentation des outils bibliographiques; origine et évolution des mots; procédés de création lexicale; variation sémantique. Les travaux prendront la forme d'exercices variés de vocabulaire, d'analyses de textes et de recherches lexicales.

N.B. : Avec le cours FRAN 306, ce cours constituerait une bonne préparation aux cours de langue de niveau 400.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 334 ne peuvent obtenir de crédits pour ce cours.

FRAN 321 *Grammaire fonctionnelle du français* (3 crédits)

Préalable : FRAN 303, 306 ou l'équivalent. Ce cours de mise à niveau s'adresse à l'étudiante ou l'étudiant qui, possédant déjà des connaissances approfondies en français, veut développer des automatismes de correction. Axé sur la révision systématique des règles fondamentales du français, il permettra à l'étudiante ou l'étudiant d'atteindre une meilleure compréhension et une meilleure utilisation de la langue française.

FRAN 398 *Étude d'un sujet particulier*
(3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

• **Langue et linguistique françaises**

FRAA 400 *Introduction à la linguistique française I* (3 crédits)

Préalables : FRAN 306 et 321 ou l'équivalent. Ce cours vise à initier l'étudiante ou l'étudiant à l'analyse descriptive de la structure linguistique du français contemporain. Il présente un aperçu des aspects phonémiques, morphosyntaxiques et lexicaux de la langue considérée comme un système. Outre les notions de base sur la linguistique générale, on y aborde les méthodes d'analyse phonétique, phonologique et morphologique du français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 330 ne peuvent obtenir de crédits pour ce cours.

FRAA 401 *Introduction à la linguistique française II* (3 crédits)

Préalable : FRAA 400 ou l'équivalent. Suite du FRAA 400, ce cours vise à poursuivre l'étude du système linguistique du français contemporain. Outre les notions de base sur la sociolinguistique et la linguistique de l'énonciation, il traite des

méthodes d'analyse syntaxique, lexicale et sémantique du français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 331 ne peuvent obtenir de crédits pour ce cours.

FRAA 403 *Histoire de la langue française*
(3 crédits)

Préalables : FRAA 400 ou 401 ou l'équivalent. Ce cours est une initiation à l'histoire interne et à l'histoire externe du français. On étudiera, d'une part, les origines de cette langue et ses transformations au cours des siècles, sur les plans phonétique, orthographique, morphologique, syntaxique, lexical et sémantique et, d'autre part, l'évolution de sa situation dans le monde comme langue maternelle, langue seconde, langue de culture.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 333 ne peuvent obtenir de crédits pour ce cours.

FRAA 404 *Histoire de la langue française au Québec* (3 crédits)

Préalables : Six crédits parmi FRAN 320, FRAN 321, FRAA 400, FRAA 401, FRAA 403 ou l'équivalent. Aperçu de l'évolution du français au Québec, du XVII^e siècle à nos jours. Étude de la formation du français québécois et des influences internes et externes qu'il a subies au cours du temps. À l'aide de documents provenant d'époques successives, on s'attachera à définir ce qui caractérise les différents états du français parlé et écrit au Québec.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 466 ne peuvent obtenir de crédits pour ce cours.

FRAA 405 *Le code oratoire* (3 crédits)

Préalables : FRAN 305 et 321 ou l'équivalent. Ce cours avancé de langue s'adresse aux étudiantes et étudiants cherchant à acquérir une habileté à parler en public ou à la développer. Il porte à la fois sur la transmission et la création de discours oraux : étude des caractéristiques de la langue « oratoire »; acquisition des techniques et des moyens linguistiques appropriés pour établir une communication structurée et vivante avec un auditoire; introduction à la rhétorique et création de discours argumentatifs. Les séances de travaux pratiques permettent aux étudiantes et étudiants d'approfondir les techniques enseignées pendant le cours.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 404 ou 405 ou 408 ne peuvent obtenir de crédits pour ce cours.

FRAA 409 *Cours libre de traduction*
(3 crédits)

Préalables : Six crédits parmi FRAN 306, FRAN 321, FRAA 410, FRAA 413; ou autorisation du département. Étude systématique des anglicismes; notions de méthodologie de la traduction; étude de quelques aspects de la stylistique comparée du français et de l'anglais; travaux pratiques de traduction de l'anglais au français.

N.B. : Ce cours est destiné particulièrement, mais

non exclusivement, aux étudiantes et étudiants qui ne se spécialisent pas en traduction.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 409 ne peuvent obtenir de crédits pour ce cours.

FRAA 410 Grammaire avancée du français
(3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours vise le perfectionnement des connaissances grammaticales et l'acquisition d'une bonne compréhension du fonctionnement de la langue française en tant que système. Dans une perspective de grammaire nouvelle, les étudiantes et étudiants analyseront la syntaxe de la phrase et ses transformations ainsi que les caractéristiques sémantiques, morphologiques et syntaxiques des catégories de mots. Les manipulations des constituants de la phrase leur permettront de faire ressortir les différentes fonctions grammaticales et de maîtriser le système des accords.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 406 ne peuvent obtenir de crédits pour ce cours.

FRAA 411 Écriture assistée par ordinateur
(3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours est fondé sur l'intégration des ressources informatiques à la pratique de l'écriture. Il permettra aux étudiantes et étudiants d'acquies des compétences avancées dans l'utilisation du traitement de texte et d'autres outils de rédaction assistée par ordinateur (logiciels de PAO, correcteurs orthographiques et grammaticaux, aides à la rédaction) nécessaires à leur intégration au marché du travail. Il familiarisera l'étudiante et l'étudiant à la chaîne éditoriale et au travail collaboratif autour d'un document.

FRAA 412 Grammaire de texte (3 crédits)

Préalable : FRAN 321. Ce cours de communication écrite vise l'approfondissement des connaissances de la structuration du texte. L'accent est mis sur l'acquisition des règles spécifiques de la grammaire du texte qui dépassent le cadre d'une grammaire de la phrase. Dans cette perspective seront abordés des éléments tels que la reprise lexicale et pronomiale, les articulateurs textuels et le rôle des paragraphes. Différentes organisations textuelles seront également analysées et ce, dans une perspective élargie de communication écrite.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 407 ne peuvent obtenir de crédits pour ce cours.

FRAA 413 Rédaction I (3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours est destiné à l'étudiante ou à l'étudiant qui possède déjà une connaissance approfondie de la langue française. Il est fondé sur l'apprentissage des exigences méthodologiques propres aux travaux universitaires et des techniques de rédaction de différents types de textes informatifs et critiques, dont le texte argumentatif. Par des exercices de lecture, des rappels grammaticaux et des ateliers

de rédaction, l'étudiante ou l'étudiant pourra corriger ses lacunes et apprendre à nuancer son expression.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 400 ne peuvent obtenir de crédits pour ce cours.

FRAA 420 Stylistique comparée (3 crédits)

Préalable : FRAA 412 ou 413. Ce cours portera sur l'analyse des différences stylistiques, syntaxiques et socioculturelles qui régissent les différents types de textes en anglais et en français. Il permettra à l'étudiante ou à l'étudiant de mieux appréhender l'ensemble des rapports qui unissent les faits sociaux, culturels aux structures linguistiques, d'acquies une expression écrite nuancée dans les divers champs de référence ou domaines de la culture contemporaine et d'être capable de transférer/traduire des procédés stylistiques d'une langue à l'autre.

FRAA 421 Sémantique française (3 crédits)

Préalable : FRAA 401. Étude formelle de la signification et de la segmentation du sens en français fondée sur une approche sémiotique de la langue. Les étudiantes et étudiants feront l'apprentissage de méthodes d'analyse leur permettant d'inventorier les effets de sens et de les ordonner en fonction de critères objectifs.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 469 ne peuvent obtenir de crédits pour ce cours.

FRAA 422 Questions actuelles en linguistique française (3 crédits)

Préalable : FRAA 400 ou 401. Ce cours propose l'étude d'un sujet particulier du domaine de la linguistique. Plus précisément, ce cours aborde des questions qui peuvent être rattachées au domaine de l'énonciation, de la sociolinguistique, des politiques linguistiques, du traitement automatique du langage ou d'autres domaines de recherche en linguistique. Des présentations théoriques, des ateliers d'observation ou des exercices d'application permettront à l'étudiante et à l'étudiant de mieux cerner la problématique abordée.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 471 ne peuvent obtenir de crédits pour ce cours.

FRAA 423 Rédaction II (3 crédits)

Préalable : FRAA 413. Ce cours est destiné à l'étudiante ou à l'étudiant qui a une bonne maîtrise de la grammaire et des exigences méthodologiques propres aux travaux universitaires, et qui possède déjà l'habileté à rédiger différents types de textes informatifs ou critiques. Par la rédaction de textes qui répondent à un but spécifique de la communication, l'étudiante ou l'étudiant approfondira les diverses techniques de composition.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 403 ne peuvent obtenir de crédits pour ce cours.

FRAA 430 Stylistique avancée (3 crédits)

Préalable : FRAA 423 ou autorisation du département. Ce cours vise l'acquisition de procédés et

techniques permettant à l'étudiante ou l'étudiant d'améliorer la concision, l'expressivité et la clarté de ses productions écrites. L'analyse de la façon dont l'organisation textuelle, les constituants syntaxiques, les procédés énonciatifs, lexicaux et rhétoriques concourent à modifier et nuancer le sens permettront à l'étudiante ou l'étudiant de rendre ses productions mieux adaptées à un registre, à un type d'écrit et à des visées sémantiques données. Ce cours alternera la présentation des connaissances théoriques avec le travail en atelier d'écriture et les exercices pratiques qui en permettront l'assimilation.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 470 ne peuvent obtenir de crédits pour ce cours.

FRAA 431 Rédaction professionnelle
(3 crédits)

Préalable : FRAA 413 et 423 ou l'équivalent. L'objectif de ce cours est d'enseigner aux étudiantes et étudiants la rédaction de textes techniques, scientifiques, juridiques ou autres et d'analyser les caractéristiques qui leur sont propres en français.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 410 ne peuvent obtenir de crédits pour ce cours.

FRAA 432 Écriture pour le Web (3 crédits)

Préalables : FRAA 411 et 413 ou l'équivalent. Ce cours vise à familiariser l'étudiante ou l'étudiant aux techniques d'écriture pour le Web et aux technologies associées à ce média. Il permettra de mieux comprendre ce que l'hypertexte et l'écrit sur support numérique impliquent du point de vue du traitement de l'information et des spécificités linguistiques et ergonomiques. Il vise à initier l'étudiante et l'étudiant à la création et à la traduction de pages et de sites Web.

FRAA 440 Création littéraire : fiction
(3 crédits)

Préalable : FRAA 430 ou autorisation du département. Au moyen d'une pratique intensive de l'écriture, ce cours permettra à l'étudiante ou l'étudiant de développer des habiletés stylistiques, syntaxiques et rédactionnelles de haut niveau orientées vers la production de textes de fiction.

FRAA 441 Création littéraire : essai
(3 crédits)

Préalable : FRAA 430 ou autorisation du département. Au moyen d'une pratique intensive de l'écriture, ce cours permettra à l'étudiante ou l'étudiant de développer des habiletés stylistiques, syntaxiques et rédactionnelles de haut niveau orientées vers la production d'essais et de textes théoriques.

FRAA 491 Tutorat en langue, linguistique ou rédaction (3 crédits)

Préalables : 12 crédits de langue, de linguistique ou de rédaction au niveau « 400 ». Étude d'un sujet particulier dans le domaine de la langue, de la linguistique ou de la rédaction.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 491 ne peuvent obtenir de crédits pour ce cours.

FRAA 492 Tutorat en langue, linguistique ou rédaction (3 crédits)

Préalables : 12 crédits de langue, de linguistique ou de rédaction au niveau « 400 ». Étude d'un sujet particulier dans le domaine de la langue, de la linguistique ou de la rédaction.

FRAA 493 Projet de rédaction (3 crédits)

Préalables : FRAA 430 et autorisation du département. Ce cours n'est ouvert qu'aux étudiantes et étudiants de la majeure en rédaction professionnelle. Il offre l'occasion d'approfondir un aspect particulier du domaine de la rédaction en permettant à l'étudiante ou l'étudiant de présenter un projet individuel en accord avec une professeure ou un professeur du département qui supervisera son travail tout au long de la session.

FRAA 498 Étude avancée d'un sujet particulier (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi le même sujet sous le numéro FRAN 498 ne peuvent obtenir de crédits pour ce cours.

Littérature

FLIT 220 Textes littéraires (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Au moyen d'un choix de nouvelles, romans, pièces de théâtre et poèmes de la francophonie, l'étudiante ou l'étudiant apprendra à « lire » et à apprécier les caractéristiques des différents genres.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 220 ne peuvent obtenir de crédits pour ce cours.

FLIT 230 Introduction à la culture francophone (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours vise à familiariser les étudiantes et étudiants non francophones à la culture francophone et à sa diversité. Une étude sociale, historique, linguistique et culturelle permettra aux étudiantes et étudiants de s'interroger sur ce qu'est la francophonie et sur la spécificité francophone.

N.B. : Les étudiantes et étudiants qui ont suivi FLIZ 230 ou FRAN 270 ne peuvent obtenir de crédits pour ce cours.

FLIT 240 Introduction à la littérature francophone (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours vise à familiariser les étudiantes et étudiants non francophones à la littérature d'expression française. On lira dans ce cours des œuvres représentatives de la diversité du monde francophone.

N.B. : Les étudiantes et étudiants qui ont suivi FLIZ 240 ou FRAN 271 ne peuvent obtenir de crédits pour ce cours.

FLIT 250 Culture populaire en France et au Québec (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent.

Étude comparée de la culture populaire en France et au Québec de 1967 à nos jours : les événements historiques, la littérature, la presse, la mode, la chanson, la télévision, le cinéma, la publicité.

FLIT 298 *Étude d'un sujet particulier*
(3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Les sujets particuliers qui sont étudiés sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 298 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FLIT 300 *Littérature et culture françaises du Moyen Âge au XVII^e siècle*
(3 crédits)

Aperçu général de la littérature française du Moyen Âge, de la Renaissance et du XVII^e siècle et du contexte historique, social et culturel qui a donné naissance aux œuvres de l'époque.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 320 ou 321 ne peuvent obtenir de crédits pour ce cours.

FLIT 302 *Littérature et culture françaises du XVIII^e au XX^e siècle* (3 crédits)

Aperçu général de la littérature française des XVIII^e, XIX^e et XX^e siècles et du contexte historique, social et culturel qui a donné naissance aux œuvres de l'époque.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 320 ou 322 ne peuvent obtenir de crédits pour ce cours.

FLIT 303 *Culture et littérature québécoises de 1534 à 1900*
(3 crédits)

Panorama de la littérature québécoise, de la Nouvelle-France à la fin du XIX^e siècle, vue dans une perspective socio-historique. Par l'étude de textes significatifs, on retracera le processus historique de différenciation et d'affirmation collective des Québécoises et Québécois.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 251 ou 252 ne peuvent obtenir de crédits pour ce cours.

FLIT 305 *Culture et littérature québécoises : le XX^e siècle*
(3 crédits)

Panorama de la littérature québécoise du XX^e siècle vue dans une perspective socio-historique. Étude des grandes étapes de la production littéraire avec, comme toile de fond, un aperçu général de l'histoire politique, économique, sociale et culturelle du Québec. Étude des principaux courants de pensée.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 251 ou 253 ne peuvent obtenir de crédits pour ce cours.

FLIT 308 *Le quotidien de la francophonie*
(3 crédits)

Étude de la culture de pays francophones (prin-

cipalement de l'Afrique, des Antilles ou d'autres pays entièrement ou partiellement francophones). Ce cours a pour but, au moyen de documents imprimés et audio-visuels, de faire connaître les conditions socio-politiques de ces pays plutôt que l'histoire des faits exceptionnels.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 364 ne peuvent obtenir de crédits pour ce cours.

FLIT 310 *Le Moyen Âge* (3 crédits)

Introduction à la lecture des premières œuvres de la littérature française : chansons de geste, lais, romans, poésie, théâtre, fabliaux et nouvelles, chroniques et écrits didactiques. Présentation de leur contexte culturel : le monde féodal et la société urbaine, la culture savante et la culture populaire, les milieux intellectuels et artistiques.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 420 ne peuvent obtenir de crédits pour ce cours.

FLIT 312 *La Renaissance française : questions et perspectives*
(3 crédits)

Étude des mythes, des valeurs, des symboles qui structurent le monde mental des « acteurs » de la Renaissance française. Les cercles et les foyers de rayonnement intellectuel notables (la Cour, Lyon, les collèges) sont étudiés en détail.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 425 ne peuvent obtenir de crédits pour ce cours.

FLIT 314 *Le XVII^e siècle : l'univers théâtral* (3 crédits)

Étude de la pastorale, de la comédie, de la tragédie et de la tragi-comédie. Importance du théâtre au XVII^e siècle : scénographie, poétique et dramaturgie. Sources et réception des œuvres dramatiques.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 429 ne peuvent obtenir de crédits pour ce cours.

FLIT 316 *La naissance et la diffusion des Lumières en France* (3 crédits)

Analyse de l'émergence d'un pouvoir intellectuel de plus en plus autonome en France au XVIII^e siècle, par rapport à l'Église, par rapport à l'État. Étude du cadre historique et littéraire dans lequel s'est formée et affirmée la philosophie des Lumières.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 432 ne peuvent obtenir de crédits pour ce cours.

FLIT 318 *Le XIX^e siècle : roman et société* (3 crédits)

Ce cours est une étude du roman du XIX^e siècle et de ses principales thématiques telles que les transformations sociales, historiques et politiques, le progrès, la science, les utopies.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 440 ne peuvent obtenir de crédits pour ce cours.

FLIT 320 *Le XX^e siècle : les métamorphoses du roman* (3 crédits)
Étude de l'évolution du roman au XX^e siècle en France et de l'émergence de nouvelles structures romanesques. De la sotie gidienne au Nouveau Roman, le roman n'a cessé de redéfinir son genre, d'emprunter à d'autres discours narratifs et de faire éclater la forme du roman réaliste.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 446 ne peuvent obtenir de crédits pour ce cours.

FLIT 341 *Le roman québécois jusqu'en 1960* (3 crédits)
La pratique romanesque de 1900 à 1960 dans la réalité socio-politique et culturelle. Du roman de la fidélité au roman de l'interrogation, en passant par le roman d'observation, le roman de la critique sociale et le roman de l'exploration intérieure. (Re)lecture des œuvres marquantes dont plusieurs, grâce à la radio, au cinéma et à la télévision, ont joué un rôle important dans la formation de l'imaginaire québécois.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 352 ne peuvent obtenir de crédits pour ce cours.

FLIT 343 *Le roman québécois contemporain* (3 crédits)
La pratique romanesque depuis la Révolution tranquille : évolutions et orientations. On insistera sur les aspects suivants : rupture, modernité et post-modernité; poétique et politique; diversité des pratiques : des recherches formelles aux « belles histoires »; éclatement de l'espace fictionnel, sous la poussée notamment des écritures de femmes et des écritures (im)migrantes. La lecture de textes marquants sera proposée aux étudiants et étudiantes.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 353 ne peuvent obtenir de crédits pour ce cours.

FLIT 349 *L'essai au Québec* (3 crédits)
Étude des grands thèmes et de l'évolution des formes de la pensée québécoise à travers l'essai. Analyse des regards pluriels portés sur la culture, la politique. Évaluation de ces composantes mouvantes dans la configuration de la société québécoise actuelle. Lecture d'œuvres représentatives.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 358 ne peuvent obtenir de crédits pour ce cours.

FLIT 351 *Le théâtre québécois* (3 crédits)
Évolution du théâtre québécois, théories et pratiques. Identification et étude des principaux axes de son développement. Situation du théâtre dans le réseau des discours esthétiques et socio-culturels. Étude de pièces et de dramaturges marquants.
N.B. : Les étudiantes et étudiants qui ont suivi FLIT 345 ou 347 ne peuvent obtenir de crédits pour ce cours.

FLIT 360 *Littérature de la francophonie au féminin* (3 crédits)
Introduction à l'écriture des femmes francophones,

principalement d'Afrique et des Caraïbes ou d'autres pays entièrement ou partiellement francophones. Analyse du regard particulier qu'elles posent sur elles-mêmes et sur la société. Étude des rapports qu'elles entretiennent avec le français (langue maternelle, langue d'usage, langue imposée...). Évaluation de l'apport spécifique de ces femmes à la littérature de leur pays.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 360 ne peuvent obtenir de crédits pour ce cours.

FLIT 362 *Littérature maghrébine* (3 crédits)
Histoire de la littérature marocaine, algérienne et tunisienne écrite directement en français par des écrivains d'origine arabe ou berbère. Marquée par les influences combinées de la culture française et de l'Islam, cette littérature sera étudiée dans son développement et sa spécificité. Lecture et analyse d'œuvres marquantes datant de l'époque coloniale jusqu'à nos jours.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 256 ne peuvent obtenir de crédits pour ce cours.

FLIT 364 *Littératures africaine et antillaise* (3 crédits)
Histoire et développement de la littérature de langue française des Antilles et d'Afrique subsaharienne au XX^e siècle. Issue de l'époque coloniale, cette littérature sera étudiée en fonction de la grande mutation des années soixante et de la problématique géopolitique des années qui ont suivi les indépendances. Lecture et analyse d'œuvres marquantes provenant de divers pays membres de la francophonie.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 257 ne peuvent obtenir de crédits pour ce cours.

FLIT 380 *Texte et image* (3 crédits)
Analyse des liens qui unissent le texte et l'image et qui peuvent se manifester sous diverses formes artistiques. On s'attachera à une époque et à une problématique particulières qui permettront de mieux comprendre les rapports du visuel et du littéraire.

FLIT 382 *Le monde du cinéma français* (3 crédits)
Ce cours, abondamment illustré de films ou d'extraits de films, étudie à la fois la relation qui s'est établie, depuis plus de cent ans, entre le cinéma français et les cultures de langue française, et l'impact de ce cinéma sur celle-ci. Ce cours analyse aussi les différences, similitudes, points de tension et de rencontre entre ce cinéma et les autres cinémas nationaux.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 373 ou 374 ne peuvent obtenir de crédits pour ce cours.

FLIT 398 *Étude d'un sujet particulier* (3 crédits)
Les préalables de ces cours, ainsi que les sujets

particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 398 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FLIT 410 *La naissance du roman au Moyen Âge* (3 crédits)

Le roman naissant et la société courtoise (XII^e siècle). Sources et thématiques : l'Antiquité, la « matière de Bretagne », l'Orient. Motifs, personnages et structures narratives, les grands cycles (XIII^e siècle) : Arthur, Tristan, Lancelot, Le Graal.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 421 ne peuvent obtenir de crédits pour ce cours.

FLIT 412 *La création littéraire en France au XVI^e siècle* (3 crédits)

La création littéraire (en prose et en poésie) comme cristallisation, polarisation de l'imaginaire de la Renaissance et comme référence à l'humanisme. Étude des œuvres majeures du XVI^e siècle dans leurs rapports au pétrarquisme, au maniérisme, au baroque.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 426 ne peuvent obtenir de crédits pour ce cours.

FLIT 414 *L'écriture moraliste et intime au XVII^e siècle* (3 crédits)

Émergence du monde intérieur (moral et spirituel) dans les récits spéculaires des moralistes, mémorialistes et épistoliers. Cosmographie, cartographie, anatomie et écriture moraliste.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 431 ne peuvent obtenir de crédits pour ce cours.

FLIT 416 *La création littéraire au XVIII^e siècle* (3 crédits)

La vitalité du conte, du roman, du théâtre est indéniable au XVIII^e siècle, siècle de tensions, de confrontations, de rêve. Le militantisme des écrivains-philosophes s'accompagne d'une idéologie de bonheur, de la liberté. Analyse des œuvres qui ponctuent l'évolution littéraire et philosophique de ce siècle.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 435 ne peuvent obtenir de crédits pour ce cours.

FLIT 418 *Du Romantisme à l'orée de la modernité* (3 crédits)

À partir du « mal de siècle » français, analyse des transformations successives du rôle des écrivains (poètes, dramaturges, romanciers, essayistes) dans une société marquée par une industrialisation croissante, de nouvelles découvertes scientifiques et d'importants bouleversements socio-politiques. Le choix de textes permettra d'étudier les différentes voies empruntées par les Romantiques (repli sur soi, engagement social, renouvellement des genres), la participation plus active des femmes à l'institution littéraire, le passage au

réalisme et les premières transformations de celui-ci.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 438 et 439 ne peuvent obtenir de crédits pour ce cours.

FLIT 420 *Du réalisme à l'esprit « fin de siècle »* (3 crédits)

Étude des multiples tendances qui caractérisent la deuxième partie du dix-neuvième siècle. Cette période est marquée par le passage du réalisme au naturalisme, par l'apogée et la mise en question du roman « bien construit ». Elle verra aussi la naissance de nouveaux genres, tels que le roman policier ou d'anticipation, ainsi que l'éclatement des formes poétiques. Les dernières années seront aussi celles de la décadence et de l'esprit « fin-de-siècle ».

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 441 ne peuvent obtenir de crédits pour ce cours.

FLIT 422 *La poésie et le théâtre des avant-gardes* (3 crédits)

Analyse de la notion de rupture avec la littérature contemporaine à l'œuvre dans divers courants poétiques et dramaturgiques tout au long du XX^e siècle. À travers les œuvres des dadaïstes, des surréalistes, des lettristes, des oulipiens, des tenants du théâtre existentialiste, absurde ou encore du théâtre de la cruauté, on retrouve ce même souci de rompre avec l'espace littéraire contemporain, de renouveler la poésie et le théâtre par des textes de création, des critiques littéraires ou encore des manifestes.

FLIT 424 *La littérature française actuelle* (3 crédits)

Aperçu de la littérature française des trente dernières années, marquée par plusieurs phénomènes, dont la reconfiguration des genres et des structures, la post-modernité, l'écriture au féminin, la revendication de la différence, la réhabilitation du « polar », la remise en question de la théorie et l'émergence d'une multi-culture qui témoigne des phénomènes migratoires inhérents au « village global ».
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 448 ne peuvent obtenir de crédits pour ce cours.

FLIT 443 *La poésie québécoise* (3 crédits)

Histoire de la poésie de langue française au Québec, des origines à nos jours. Étude des mouvements et des formes à travers le temps, et lecture des œuvres les plus significatives. On insistera sur l'émergence progressive de la modernité et sur la spécificité des thèmes du répertoire poétique québécois, au confluent de l'histoire et des bouleversements sociaux.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 354 ou 355 ne peuvent obtenir de crédits pour ce cours.

FLIT 446 *Littératures populaires* (3 crédits)

Ce cours propose l'étude des littératures populaires d'expression française à travers l'analyse

des thématiques, des structures et des modalités de réception.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 445 ne peuvent obtenir de crédits pour ce cours.

FLIT 447 *Les Voix de Montréal* (3 crédits)
À travers des textes d'écrivaines et d'écrivains montréalais, on cherchera à rendre compte de la dimension plurielle de l'écriture et de la culture québécoises. On privilégiera les parcours transculturels des auteures et auteurs venus d'un ailleurs géographique et culturel, mais qui inscrivent leurs différences dans le texte québécois par la publication ou la traduction de leurs œuvres en français.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 460 ne peuvent obtenir de crédits pour ce cours.

FLIT 449 *Littérature québécoise – Canadian Literature* (3 crédits)
Étude comparée des littératures québécoise et canadienne-anglaise. Analyse thématique, idéologique et stylistique. Examen des similitudes, des analogies et des traits distinctifs. Textes choisis à la fois parmi les œuvres traditionnelles et les œuvres contemporaines.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 455 ou 456 ne peuvent obtenir de crédits pour ce cours.

FLIT 451 *Imaginaires, mythes et symboles* (3 crédits)
Ce cours décrit et analyse l'évolution de grands symboles et archétypes de l'imaginaire des littératures d'expression française.
N.B. : Les étudiantes et étudiants qui ont suivi FLIT 441 ne peuvent obtenir de crédits pour ce cours.

FLIT 452 *Littérature pour la jeunesse* (3 crédits)
L'évolution de la littérature produite ou adaptée pour la jeunesse, du XVII^e siècle à la fin du XX^e siècle. Son état actuel; rapports avec la littérature générale : aspects éthiques, esthétiques et didactiques. Étude approfondie d'œuvres marquantes de la francophonie, particulièrement au Québec.

FLIT 464 *Littératures mondiales contemporaines* (3 crédits)
Étude de quelques textes littéraires fondamentaux (d'expression française ou en traduction) qui sous-tendent les interrogations contemporaines.

FLIT 466 *Littératures francophones des Amériques* (3 crédits)
Ce cours explore et interroge des textes littéraires des Amériques francophones (Québec, Canada, Louisiane, Haïti, Guadeloupe, Guyane, Martinique...). Analyse des représentations, interactions, hybridations et des évolutions significatives de ces littératures dans l'espace social, historique, médiatique.

FLIT 471 *La littérature québécoise au féminin* (3 crédits)
Étude des principales écrivaines québécoises et

de l'évolution de la conscience féminine. Analyse de la représentation qu'elles font d'elles-mêmes et du monde, de leurs modes d'expression et de l'influence du féminisme sur le littéraire. Textes choisis dans l'ensemble de la production des femmes, avec une attention particulière à l'écriture des jeunes écrivaines.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 451 ne peuvent obtenir de crédits pour ce cours.

FLIT 472 *La littérature française au féminin : perspective historique* (3 crédits)

À partir de manifestes et d'œuvres de création, on retracera différentes manifestations de la prise de conscience « féministe » chez les écrivaines françaises, ainsi que les solutions envisagées aux problèmes posés. Ce cours permettra de considérer les tendances actuelles dans une perspective historique.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 476 ne peuvent obtenir de crédits pour ce cours.

FLIT 474 *La littérature française au féminin : nos contemporaines* (3 crédits)

Ce cours portera sur l'éclatement qui caractérise l'écriture au féminin à l'heure actuelle. On étudiera différents concepts tels que la « prise de parole », la valorisation de l'*anima*, le renversement des mythes anciens, ainsi que la révolution formelle et stylistique qui accompagne cet éclatement.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 477 ne peuvent obtenir de crédits pour ce cours.

FLIT 475 *Théoriciens francophones contemporains* (3 crédits)

Étude des théoriciens qui ont marqué la pensée francophone et la critique littéraire contemporaines tels que Bourdieu, Césaire, Foucault, Khatibi, Kristeva.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 479 ou FLIT 480 ne peuvent obtenir de crédits pour ce cours.

FLIT 494 *Tutorat en littérature* (3 crédits)
Préalables : 12 crédits en littérature et autorisation du département. Étude d'un sujet particulier dans le domaine de la littérature.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 494 ne peuvent obtenir de crédits pour ce cours.

FLIT 495 *Tutorat en littérature* (3 crédits)
Préalables : 12 crédits en littérature et autorisation du département. Étude d'un sujet particulier dans le domaine de la littérature.
N.B. : Toute étudiante et tout étudiant s'inscrivant pour la seconde fois au cours FLIT 494 obtient les crédits FLIT 495.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 495 ne peuvent obtenir de crédits pour ce cours.

FLIT 496 *Recherche dirigée* (6 crédits)
 Préalables : 12 crédits dans la spécialité et autorisation du département. Ce cours n'est ouvert qu'aux étudiantes et étudiants des programmes de majeure, de spécialisation ou d'honneurs. Il offre l'occasion d'approfondir l'étude d'un sujet à déterminer par l'étudiante ou l'étudiant en accord avec sa conseillère ou son conseiller et/ou une professeure ou un professeur du département. Chaque étudiante et étudiant exécute des travaux individuels sous le contrôle de la professeure ou du professeur spécialiste de la matière.
N.B. : Les étudiantes et étudiants qui ont suivi FRAN 496 ne peuvent obtenir de crédits pour ce cours.

FLIT 498 *Étude d'un sujet particulier* (3 crédits)
 Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.
N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 498 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

Traduction

FTRA 200 *Méthodologie de la traduction* (3 crédits)
 Préalables : ENGL 207 et FRAN 306 ou équivalent. Ce cours a pour but d'initier l'étudiante et l'étudiant aux problèmes de la traduction. Il sera une introduction générale aux différentes approches du texte à traduire : analyse du discours, grammaire contrastive, stylistique comparée, terminologie et recherche documentaire.
N.B. : Ce cours comporte plusieurs sections, les unes réservées aux étudiantes et étudiants de l'option française, les autres à celles et ceux de l'option anglaise.
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 200 ne peuvent obtenir de crédits pour ce cours.

FTRA 201 *Traduction générale du français à l'anglais I* (3 crédits)
 Préalable : FTRA 200. Traduction du français à l'anglais de textes généraux et analyse des problèmes liés au transfert linguistique. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 201 ou 202 ne peuvent obtenir de crédits pour ce cours.

FTRA 202 *Traduction générale de l'anglais au français I* (3 crédits)
 Préalable : FTRA 200. Traduction de l'anglais au français de textes généraux et analyse des problèmes liés au transfert linguistique. (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 201 ou 202 ne peuvent obtenir de crédits pour ce cours.

FTRA 203 *L'anglais en contact avec le français au Québec* (3 crédits)
 Ce cours s'adresse aux étudiantes et étudiants anglophones en traduction, langue, littérature et rédaction. Il les sensibilisera aux problèmes

liés au contact de l'anglais avec le français au Québec et leur permettra de corriger leurs propres erreurs de façon systématique. Le cours est axé sur la langue écrite et on travaillera uniquement sur des textes journalistiques.

FTRA 204 *Le français en contact avec l'anglais au Québec* (3 crédits)
 Ce cours s'adresse aux étudiantes et étudiants francophones en traduction, langue, littérature et rédaction. Il les sensibilisera aux problèmes liés au contact du français avec l'anglais au Québec et leur permettra de corriger leurs propres erreurs de façon systématique. Le cours est axé sur la langue écrite et on travaillera uniquement sur des textes journalistiques.

FTRA 207 *Traduction générale du français à l'anglais II* (3 crédits)
 Préalable : FTRA 200. Ce cours s'adresse aux étudiantes et étudiants anglophones et porte sur la traduction du français à l'anglais de textes généraux, et sur l'analyse des problèmes liés au transfert linguistique. (A)

FTRA 208 *Traduction générale de l'anglais au français II* (3 crédits)
 Préalable : FTRA 200. Ce cours s'adresse aux étudiantes et étudiants francophones et porte sur la traduction de l'anglais au français de textes généraux, et sur l'analyse des problèmes liés au transfert linguistique. (F)

FTRA 298 *Étude d'un sujet particulier* (3 crédits)
N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 298 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 299 *Étude d'un sujet particulier* (6 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.
N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 299 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 301 *Traduction littéraire du français à l'anglais* (3 crédits)
 Préalable : FTRA 201. Sensibilisation aux problèmes spécifiques à la traduction littéraire. Travaux pratiques : traduction de textes de genres variés. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 301 ou 302 ne peuvent obtenir de crédits pour ce cours.

FTRA 304 *Traduction littéraire de l'anglais au français* (3 crédits)
 Préalable : FTRA 202. Sensibilisation aux problèmes spécifiques à la traduction littéraire. Travaux pratiques : traduction de textes de genres variés. (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 303 ou 304 ne peuvent obtenir de crédits pour ce cours.

FTRA 305 *Initiation à la traduction économique du français à l'anglais* (3 crédits)

Préalable : FTRA 207. Sensibilisation aux problèmes que pose dans le domaine de l'économie la traduction du français à l'anglais. (A)

FTRA 306 *Initiation à la traduction économique de l'anglais au français* (3 crédits)

Préalable : FTRA 208. Sensibilisation aux problèmes que pose dans le domaine de l'économie la traduction de l'anglais au français. (F)

FTRA 310 *Initiation à la recherche documentaire et terminologique* (3 crédits)

Préalable : FTRA 201 ou 202. Le cours fournit les outils permettant de repérer les problèmes de terminologie en traduction. Sont traités : les cheminement documentaire et terminologique (terminologie bilingue ou unilingue, langues de spécialités); la création de produits terminographiques (surtout thématiques); l'intervention linguistique et ses modalités (perspective sociolinguistique). (F/A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 310 ne peuvent obtenir de crédits pour ce cours.

FTRA 398 *Étude d'un sujet particulier* (3 crédits)

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 398 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 399 *Étude d'un sujet particulier* (6 crédits)

Les prélabes de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.
N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 399 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 401 *Traduction littéraire avancée : du français à l'anglais* (3 crédits)

Préalable : FTRA 301. Étude des différents principes et des différentes techniques de la traduction littéraire; aperçu de la traduction littéraire au Canada. Travaux pratiques : analyse critique et comparaison de traductions et de leur original; traduction de textes français. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 401 ne peuvent obtenir de crédits pour ce cours.

FTRA 402 *Traduction littéraire avancée : de l'anglais au français* (3 crédits)

Préalable : FTRA 304. Étude des différents principes et des différentes techniques de la traduction littéraire; aperçu de la traduction littéraire au Canada. Travaux pratiques : analyse critique

et comparaison de traductions et de leur original; traduction de textes anglais. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 402 ne peuvent obtenir de crédits pour ce cours.

FTRA 403 *Traduction scientifique et technique du français à l'anglais* (3 crédits)

Préalable : FTRA 201. Initiation aux différents problèmes de la traduction dans les langues de spécialités scientifiques et techniques (français-anglais). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 403 ne peuvent obtenir de crédits pour ce cours.

FTRA 404 *Traduction scientifique et technique de l'anglais au français* (3 crédits)

Préalable : FTRA 202. Initiation aux différents problèmes de la traduction dans les langues de spécialités scientifiques et techniques (anglais-français). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 404 ne peuvent obtenir de crédits pour ce cours.

FTRA 405 *Traduction commerciale et juridique du français à l'anglais* (3 crédits)

Préalable : FTRA 201. Initiation aux différents problèmes de la traduction dans les langues de spécialités de l'administration, du commerce et du droit (français-anglais). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 405 ne peuvent obtenir de crédits pour ce cours.

FTRA 406 *Traduction commerciale et juridique de l'anglais au français* (3 crédits)

Préalable : FTRA 202. Initiation aux différents problèmes de la traduction dans les langues de spécialités de l'administration, du commerce et du droit (anglais-français). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé. (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 406 ne peuvent obtenir de crédits pour ce cours.

FTRA 408 *Adaptation publicitaire* (3 crédits)

Préalable : FTRA 201 ou 202. Initiation à l'adaptation de textes publicitaires. À partir d'exemples empruntés à la publicité écrite, radiophonique ou télévisée, les étudiantes et étudiants seront amenés à se familiariser avec les problèmes linguistiques, affectifs et sociaux

soulevés par le travail d'adaptation. (F/A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 408 ne peuvent obtenir de crédits pour ce cours.

FTRA 409 Révision et correction en traduction (3 crédits)

Préalable : FTRA 301 ou 305. Ce cours abordera les différentes méthodes de révision et de correction de textes rédigés ou traduits en anglais; il sensibilisera les étudiantes et étudiants aux aspects humains et techniques du métier de réviseur et réviseuse; on touchera aussi aux problèmes de l'évaluation de la qualité des traductions. (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 409 ou 410 ne peuvent obtenir de crédits pour ce cours.

FTRA 410 Révision et correction en traduction (3 crédits)

Préalable : FTRA 304 ou 306. Ce cours abordera les différentes méthodes de révision et de correction de textes rédigés ou traduits en français; il sensibilisera les étudiantes et étudiants aux aspects humains et techniques du métier de réviseur et réviseuse; on touchera aussi aux problèmes de l'évaluation de la qualité des traductions. (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 409 ou 410 ne peuvent obtenir de crédits pour ce cours.

FTRA 412 Théories de la traduction (3 crédits)

Préalable : FTRA 301 ou 304 ou 305 ou 306. Ce cours est une initiation aux différentes théories actuelles de la traduction. Est examiné l'apport de secteurs disciplinaires clés tels que la linguistique, la sémiotique, la sociocritique, dans le développement de la traductologie moderne. (F/A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 412 ne peuvent obtenir de crédits pour ce cours.

FTRA 414 Histoire de la traduction (3 crédits)

Préalable : FTRA 301 ou 304 ou 305 ou 306. Cours d'initiation à l'histoire de la traduction où sont traités les grands courants de la traduction depuis l'Antiquité classique. Sera également abordée la traduction dans certaines sociétés non occidentales. On procèdera par thèmes et par aires géographiques en mettant l'accent sur les époques clés de grands changements politiques et culturels. (F/A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 414 ne peuvent obtenir de crédits pour ce cours.

FTRA 416 Informatique et traduction (3 crédits)

Préalables : FTRA 201 ou 202, et connaissance du traitement de textes. Ce cours porte sur la langue de l'informatique, la théorie et les concepts fondamentaux qui s'y rapportent. Il comporte des exercices de traduction, et une initiation aux outils informatisés pour les traducteurs :

Internet, bases de données, systèmes de traduction assistée, utilitaires. (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 416 ne peuvent obtenir de crédits pour ce cours.

FTRA 417 Stylistique anglaise pour la traduction (3 crédits)

Préalable : FTRA 310. Ce cours permettra aux étudiantes et étudiants qui traduisent vers l'anglais de maîtriser les principes stylistiques de cette langue. (A)

FTRA 420 Stage de formation : de l'anglais au français (6 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et tous les candidats.) (F)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 420 ne peuvent obtenir de crédits pour ce cours.

FTRA 421 Stage de formation : du français à l'anglais (6 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et tous les candidats.) (A)
N.B. : Les étudiantes et étudiants qui ont suivi TRAD 421 ne peuvent obtenir de crédits pour ce cours.

FTRA 422 Stage de formation : de l'anglais au français I (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (F)

FTRA 423 Stage de formation : du français à l'anglais I (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le

département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (A)

FTRA 424 *Stage de formation : de l'anglais au français II* (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (F)

FTRA 425 *Stage de formation : du français à l'anglais II* (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (A)

FTRA 452 *Traduction automatique (TA) et traduction assistée par ordinateur (TAO)* (3 crédits)

Préalables : FTRA 416. Ce cours permet d'analyser les aspects morphologiques, lexicaux, syntaxiques et sémantiques des systèmes de traduction automatisée. L'étudiante et l'étudiant apprennent à appliquer les concepts analysés à un système commercialisé. Ils évaluent des traductions machine, font des exercices simples de programmation portant sur des problèmes linguistiques; ils appliquent des outils de gestion et de traduction au matériel à localiser à l'aide de logiciels de localisation, de logiciels de terminologie, et de mémoires de traduction.

FTRA 455 *Gestion de projets* (3 crédits)

Préalables : 12 crédits FTRA. Ce cours traite de la gestion des projets de traduction/localisation multilingues, depuis la rédaction de l'offre de

services, jusqu'au contrôle de la qualité et la livraison, en passant par la résolution de problèmes et la gestion en situation de crise. Il comprend une partie théorique et des mises en situation. Les étudiantes et étudiants se familiarisent avec l'évaluation des ressources (humaines et matérielles) nécessaires pour exécuter le travail, l'élaboration d'échéanciers et le suivi d'un budget. Ils apprennent à gérer les ressources affectées aux projets afin de pouvoir respecter le mandat qui leur est confié.

FTRA 458 *Pratique de la localisation* (3 crédits)

Préalables : 12 crédits FTRA. L'étudiante et l'étudiant étudieront dans ce cours les stratégies de localisation et les processus de localisation : la localisation de logiciels et la localisation de sites Web; les acteurs dans les projets de localisation; la situation et le travail du traducteur dans les projets de localisation; les types de fichiers à localiser : ressources, code source, fichiers d'aide, guides imprimés, matériel marketing; les types de logiciels localisés : logiciels système, logiciels de gestion, logiciels client, logiciels multimédia, logiciels Web.

FTRA 492 *Tutorat en traduction* (3 crédits)

Préalables : 12 crédits de traduction au niveau « 400 » et permission du département. Étude d'un sujet particulier dans le domaine de la traduction. N.B. : Les étudiantes et étudiants qui ont suivi FRAN 492 ne peuvent obtenir de crédits pour ce cours.

FTRA 498 *Étude avancée d'un sujet particulier* (3 crédits)

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 498 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 499 *Étude avancée d'un sujet particulier* (6 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*. N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 499 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

31.120

EXERCISE SCIENCE

Faculty

Chair
ROBERT D. KILGOUR, *Professor*

Professor
ROBIN N. MICHEL

Associate Professors
ROBERT BOUSHEL
RICHARD COURTEMANCHE
RICHARD DEMONT
ALAIN LEROUX
SHIPING MA
DAVID L. PARIS

Assistant Professors
SIMON L. BACON
JOANNA KOMOROWSKI
NANCY ST-ONGE

Lecturer
ROBERT PANENIC

Adjunct Professors
BARRY GAMBERG
RICHARD POUND

Location

Loyola Campus
Richard J. Renaud Science Complex, Room: SP 165
514-848-2424 ext. 3327

Department Objectives

The Department of Exercise Science is committed to teaching and research in the areas of exercise, health, and physical activity while emphasizing the fields of athletic therapy and clinical exercise physiology. The curriculum permits students to explore the biomechanical, physiological, and psychological responses to physical activity of healthy individuals and persons with a variety of impairments and disabilities. Lectures and laboratories are combined with supervised involvement in research, community, and professional activities. Students are provided with an education which is compatible with obtaining employment in the health and fitness field or continuing their studies in health-related professional or graduate schools.

The BSc Honours, Specialization, and Major programs in Exercise Science provide students with the opportunity to acquire essential knowledge and a strong foundation in the field of exercise science. Students are exposed to a concentrated series of courses that incorporate the application of biological sciences to exercise, physical activity, and health-related areas including athletic therapy and clinical exercise physiology.

The fundamental concepts associated with Clinical Exercise Physiology (CEP) include the adaptation of traditional exercise forms, assessment techniques, and training protocols which address the needs of individuals with a disease or functional disability (e.g. heart disease, diabetes, neurological disorders, etc.). Students entering the field of CEP acquire an appreciation of persons with a disability, their lifestyle, and their exercise possibilities. The form of exercise application ranges from adapted physical activities to competitive sports.

The BSc Specialization in Exercise Science/Athletic Therapy is accredited by the Canadian Athletic Therapists Association (CATA) and is directed toward the preparation of students seeking to become a Certified Athletic Therapist in Canada (C.A.T.[C]). A Certified Athletic Therapist (or C.A.T.[C]) is devoted to the health care of physically active individuals. The scope of practice of the CATA includes prevention, immediate care, and reconditioning of musculoskeletal injuries. Some of the techniques used to accomplish prevention of injury are postural evaluation, conditioning, and providing prophylactic support. Immediate care and rehabilitation of musculoskeletal injury consist of injury assessment, first aid and emergency care, exercise and modality therapy, and preparing individuals for safe return to physical activity or athletic participation. Student members (certification candidates) of the CATA must fulfil the academic and practical requirements of a program accredited by the CATA in order to enter the CATA certification exam process. The BSc Honours in Exercise Science offers additional courses providing research training in a variety of applied-science and health areas. Students graduating from the BSc Honours program will possess an academic background compatible with the entry requirements for the majority of graduate schools.

Programs

Students are required to complete the appropriate profile for entry into the Exercise Science programs (see §31.002 — Programs and Admission Requirements — Profile). Students entering the Major and Specialization programs should refer to §16.3.11 — Academic Performance, and §31.003.1 — WPGA Requirements. Students considering entry into the Honours program should refer to §16.2.3 — Concen-

tration Requirements. All newly admitted students enter into either the BSc Major in Exercise Science, BSc Specialization in Athletic Therapy, or the BSc Specialization in Clinical Exercise Physiology programs. Students enrolled in the BSc Specialization in Athletic Therapy or the BSc Specialization in Clinical Exercise Physiology must maintain a cumulative GPA of not less than 3.00 calculated for courses required within their program. Any student who is unable to meet this GPA requirement will be removed from his/her program and placed in the BSc Major. Students in the Athletic Therapy program must complete at least 50 hours of professional observation approved in advance by the Department in field and clinical settings during the first year of study in order to remain in the Athletic Therapy program. Students may apply to the BSc Honours in Exercise Science after completing 24 program credits.

Internship Eligibility Requirements

To be eligible to register for an internship, students must complete the following internship eligibility requirements specific to each internship course.

To be eligible to register for the Athletic Therapy Field Internship (CATA 390³) the following prerequisite courses must be completed:

BIOL 201³ or equivalent
CATA 262³, 263³
CHEM 205³, 206³ or equivalent
EXCI 250³, 252³, 253³, 254³, 257³
MATH 203³, 205³ or equivalent
PHYS 204³, 224¹ or equivalent

To be eligible to register for the Athletic Therapy Clinical Internship (CATA 480³) the following prerequisite courses must be completed:

CATA 337³, 339³, 348³, 390³
EXCI 351³, 352³, 355³, 357³, 358³
PHYS 205³, 225¹ or equivalent

To be eligible to register for the Clinical Exercise Physiology Internship I (EXCI 383³) the following prerequisite courses must be completed:

BIOL 201³ or equivalent
CATA 262³
CHEM 205³, 206³, or equivalent
EXCI 210³, 250³, 252³, 253³, 254³, 257³, 380³
MATH 203³, 205³ or equivalent
PHYS 204³, 224¹ or equivalent

To be eligible to register for the Clinical Exercise Physiology Internship II (EXCI 483³) the following prerequisite courses must be completed:

EXCI 351³, 352³, 355³, 357³, 358³, 383³, 422³ (previously or concurrently)
PHYS 205³, 225¹ or equivalent

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

60 BSc Honours in Exercise Science
Stage I
18 EXCI 250³, 252³, 253³, 254³, 257³;
CATA 262³
Stage II
24 EXCI 320³, 322³, 323³, 351³, 352³, 355³,
357³, 358³
Stage III
15 EXCI 424³, 425³, 426⁶, 445³
3 Chosen from EXCI 440³, 455³, 458³
NOTE: Students seeking admission to the Honours program must apply to the Department Honours Committee normally following the completion of 24 program credits. Students must meet the University regulations concerning the Honours degree (§16.2.3). For additional information concerning programs and courses, students should consult the Department.

72 BSc Specialization in Exercise Science/ Athletic Therapy
Stage I
18 EXCI 210³, 250³, 252³, 253³, 254³, 257³
6 CATA 262³, 263³
Stage II
15 EXCI 351³, 352³, 355³, 357³, 358³
12 CATA 337³, 339³, 348³, 390³
Stage III
3 EXCI 445³
3 Chosen from EXCI 420³, 440³, 450³, 451³,
492³
15 CATA 437³, 439³, 447³, 462³, 480³
66 BSc Specialization in Exercise Science/ Clinical Exercise Physiology
Stage I
24 EXCI 210³, 250³, 252³, 253³, 254³, 257³;
CATA 262³, 263³

	<i>Stage II</i>		<i>Stage II</i>
21	EXCI 351 ³ , 352 ³ , 355 ³ , 357 ³ , 358 ³ , 380 ³ , 383 ³	18	EXCI 320 ³ , 351 ³ , 352 ³ , 355 ³ , 357 ³ , 358 ³
	<i>Stage III</i>		<i>Stage III</i>
18	EXCI 422 ³ , 423 ³ , 445 ³ , 450 ³ , 451 ³ , 483 ³	3	EXCI 445 ³
3	Chosen from EXCI 420 ³ , 440 ³ , 455 ³ , 458 ³ , 492 ³	3	Chosen from EXCI 420 ³ , 440 ³ , 450 ³ , 455 ³ , 458 ³ , 492 ³
42	BSc Major in Exercise Science		
	<i>Stage I</i>		
18	EXCI 250 ³ , 252 ³ , 253 ³ , 254 ³ , 257 ³ ; CATA 262 ³		

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Courses

CATA:

CATA 262 *Emergency Care in Sport and Exercise* (3 credits)

Prerequisite: EXCI 253 previously or concurrently. This course identifies common emergency situations in the athletic environment, and provides theoretical and practical components of management skills to safely deal with these situations. Specific signs and symptoms of basic emergency conditions are discussed. Planning of events to prepare for sport-related emergencies and administration of initial emergency techniques are included. Lectures and laboratory. *NOTE: The Corporation des thérapeutes du sport du Québec (CTSQ) accepts successful completion of this course as equivalent to a first aid course which is a partial requirement towards provincial recognition as a Level I Sport First Aider.*

CATA 263 *Principles of Athletic Therapy* (3 credits)

Prerequisite: CATA 262. The course considers topics in athletic therapy from professional, preventive, and pathological perspectives. The course deals with injury classification, clinical flexibility, strength testing, cryotherapy, and sports dermatology. Preventive techniques such as pre-season physical examinations, protective equipment, hazard recognition, and taping techniques are also addressed. Acute and chronic pathologies associated with physical activity, as well as issues including sudden death and communicable diseases in athletics, and the adolescent athlete will be discussed. Lectures and laboratory. *NOTE: Students who have received credit for EXCI 263 or 335 may not take this course for credit.*

CATA 337 *Assessment of the Upper and Lower Extremities* (3 credits)

Prerequisite: CATA 263 and enrolment in the Athletic Therapy Specialization. This course examines normal function of the upper and lower extremities of the human body. Abnormal function and various pathologies of these structures are addressed in depth. Making use of principles based on applied anatomy and physiology,

students learn about clinical assessment procedures and implementation of evaluation methods addressing orthopaedic dysfunction. Types of surgical procedures are discussed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 338 may not take this course for credit.

CATA 339 *Rehabilitation of the Upper and Lower Extremities* (3 credits)

Prerequisite: CATA 337 and enrolment in the Athletic Therapy Specialization. This course examines concepts in the rehabilitation process including tissue healing, and introduces students to various exercise protocols and manual techniques specific to the upper and lower extremities. Students learn how to implement safe and effective rehabilitation protocols to address orthopaedic dysfunction of these areas. Patient education to facilitate rehabilitation, documentation treatment plans and treatment outcomes are addressed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 338 may not take this course for credit.

CATA 348 *Therapeutic Modalities in Sports Medicine* (3 credits)

Prerequisite: CATA 337 and enrolment in the Athletic Therapy Specialization. Students are introduced to the parameters of therapeutic modalities and their physiological effects. Various modalities such as heat, cold, ultrasound, muscle stimulation, interferential current Transcutaneous Electrical Nerve Stimulation (T.E.N.S.), and therapeutic massage are examined. For each modality, topics include instrumentation, set-up, and practical application. Mobilization techniques and acupuncture principles are introduced. Indications and contraindications for all treatments are presented. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 348 or 448 may not take this course for credit.

CATA 390 *Athletic Therapy Field Internship* (3 credits)

Prerequisite: Enrolment in the Athletic Therapy Specialization and fulfilment of internship eligibility requirements. This course offers students the

opportunity to work in an emergency or preventive setting with a sports team, although some clinical component may be introduced. Students must be **certification candidates of the Canadian Athletic Therapists Association (CATA) and the *Corporation des thérapeutes du sport du Québec* (CTSQ)**. This course involves a commitment of 150 hours including a weekly seminar.

CATA 437 *Assessment of the Hip, Spine and Pelvis* (3 credits)

Prerequisite: CATA 339 and enrolment in the Athletic Therapy Specialization. This course examines normal function of the hip, spine, and pelvis of the human body. Abnormal function and various pathologies of these structures are addressed in depth. Making use of principles based on applied anatomy and physiology, students learn about clinical assessment procedures and implementation of evaluation methods addressing orthopaedic dysfunction. Surgical procedures are discussed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 438 may not take this course for credit.

CATA 439 *Rehabilitation of the Hip, Spine and Pelvis* (3 credits)

Prerequisite: CATA 437 and enrolment in the Athletic Therapy Specialization. This course examines concepts in rehabilitation, introducing the students to various exercise protocols and manual techniques specific to hip, spine, and pelvis. Students learn how to implement advanced, safe, and effective rehabilitation protocols to address orthopaedic dysfunction of these areas. Lectures and laboratory.

NOTE: Students who have received credit for CATA 438 may not take this course for credit.

CATA 447 *Special Topics in Athletic Therapy* (3 credits)

Prerequisite: CATA 348 and enrolment in the Athletic Therapy Specialization. This course focuses on recent research outcomes and new issues in athletic therapy specific to prevention, assessment, and rehabilitation of athletic injuries. The course content varies within the domains of the Canadian Athletic Therapists Association depending upon the most current issues such as surgical techniques, new medications, advanced assessment and modality techniques, and issues related to professional development and the workplace environment. Information is presented from a variety of courses and disciplines to enhance the knowledge base received from core Athletic Therapy courses. Lectures only.

CATA 462 *Advanced Emergency Care* (3 credits)

Prerequisite: CATA 262 and enrolment in the Athletic Therapy Specialization. This course completes the preparation of Athletic Therapy students in the area of emergency care of sports-related injury. It identifies the less common and more complicated emergency situations experienced in the athletic therapy setting. Advanced theoret-

ical and practical components are presented. This course develops the ability of the student to care for the athlete beyond the initial stages of emergency management and towards advanced life support. Lectures and laboratory.

CATA 480 *Athletic Therapy Clinical Internship* (3 credits)

Prerequisite: Enrolment in the Athletic Therapy Specialization and fulfilment of internship eligibility requirements. Students must be certification candidates of the Canadian Athletic Therapists Association and the *Corporation des thérapeutes du sport du Québec*. The course offers a supervised period of work in a rehabilitation or athletic therapy clinic. The course involves a commitment of 150 hours including a weekly seminar.

EXCI:

EXCI 202 *The Body Human: Form and Function* (3 credits)

This course provides insight into the manner in which common injuries and diseases impact on the anatomical structures and functional systems of the body. The various medical treatments and procedures available to maintain or restore the structural and functional integrity of the body are also addressed. Conditions of a cardiovascular, pulmonary, neuromuscular, metabolic and oncologic nature are discussed.

NOTE: Students who have received credit for this topic under an EXCI 298 or EXCZ 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 204 *Food for Sport* (3 credits)

The course introduces students to a basic understanding of how the digestive system functions, and then examines the role of diet on sport performance. Students learn about the impact of the major food stuffs (carbohydrates, fats, proteins, vitamins, minerals, water) on performance outcomes. The use of ergogenic aids commonly used to enhance sport performance are also discussed with respect to their effectiveness. Caloric balance, diet and body composition are also discussed relevant to specific sport requirements.

NOTE: Students who have received credit for this topic under an EXCI 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 206 *The Science of Sport* (3 credits)

The course introduces basic and practical knowledge of human movement in sports and physical activity. Anatomical and physiological knowledge pertinent to body movement is presented in simple and meaningful terms. Biomechanical concepts and principles applied to body movement in different sports and physical activities are also addressed. Consideration

is also given to nutritional aspects and injury prevention in sport and exercise.

NOTE: Students who have received credit for this topic under an EXCI 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 210 *Introduction to Adapted and Therapeutic Physical Activity*
(3 credits)

Prerequisite: Enrolment in an Exercise Science program. This course differentiates between adapted and therapeutic approaches to physical activity with respect to their historical development, inherent principles, types of disabilities and disease conditions, demographics and epidemiological data. Lectures only.

EXCI 218 *Physical Growth and Maturation* (3 credits)

This course considers normal and abnormal growth and maturation patterns of the musculoskeletal, neural, hormonal, cardiovascular, and respiratory systems of the body. In addition, socialization and psychosocial development processes with relevance to an exercise or sports environment are examined. These patterns and processes are investigated from childhood through adolescence and adulthood. Lectures only.

NOTE: Students who have received credit for EXCI 308 may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 233 *Current Issues in Personal and Community Health* (3 credits)

This course presents an overview of factors influencing personal and community health. Students are exposed to prevalent physical and mental health issues from biological, psychological, and sociological points of view. Health-related consequences of alcohol abuse, drugs, birth control, sedentary lifestyle, eating disorders, and communicable diseases are among the topics considered. Lectures only.

NOTE: Students who have received credit for EXCI 333 may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 250 *Research Methods* (3 credits)

This course provides students with a general overview of investigative research and the nature of scientific inquiry. Students receive instruction in critical enquiry and appraisal, research design, research ethics, and the role research plays in the development of professional practice/skills. Finally, this course provides the necessary knowledge and practical experience to enable students to plan and run an experimental project, including an understanding of the process of data collection, analysis, interpretation, and presentation. Lectures only.

EXCI 251 *Fundamentals of Health and Physical Activity* (3 credits)

The basic and contemporary issues of health and physical activity are discussed. General topics regarding the benefits of physical activity are examined from anatomical and physiological perspectives. Lectures only.

NOTE: Students who have received credit for EXCZ 251 may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 252 *Introduction to Physical Activity, Health and Fitness*
(3 credits)

Prerequisite: Enrolment in an Exercise Science program. This course focuses on the fundamentals of fitness assessment and the design of individualized exercise programs compatible with the responsibilities of a health/fitness instructor.

Topics of study include screening clients for fitness testing and physical activity participation; the selection of appropriate tests to assess the health-related components of physical fitness such as body composition, cardiovascular endurance, muscular strength, local muscular endurance, and flexibility; interpretation of test results; and the application of exercise principles in the design of safe and effective individualized exercise prescriptions of the apparently healthy client. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 261 and 342 may not take this course for credit.

EXCI 253 *Human Anatomy I: Musculoskeletal Anatomy* (3 credits)

Prerequisite: Enrolment in an Exercise Science program. The major focus of this course covers the anatomy of the musculoskeletal system and accompanying (peripheral) circulatory and neurological systems. It also addresses introductory terminology and tissue differentiation. The structures are examined through approaches of surface anatomy, current and traditional media and/or cadaver examination. Lectures and laboratory.

EXCI 254 *Human Anatomy II: Systemic Anatomy* (3 credits)

Prerequisite: Enrolment in an Exercise Science program. The major focus of this course covers the anatomy of the central circulatory and central respiratory systems. It also addresses the anatomy of the brain and spinal column as well as the integumentary, digestive, and urogenital systems. The structures are examined through approaches of surface anatomy, current and traditional media and cadaver examination. Lectures and laboratory.

EXCI 257 *Human Physiology I: The Neurological, Bio-energetic and Endocrine Systems*
(3 credits)

Prerequisite: EXCI 254 previously or concurrently.

This course surveys the functional organization and integration of the major systems of the body. A strong focus is placed on the fundamental control and operation of the nervous system, the mechanics and energetics of skeletal muscle function, and the actions of hormones comprising the endocrine and reproductive systems. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 353 may not take this course for credit.

EXCI 298 ***Selected Topics in Exercise Science*** (3 credits)

EXCI 299 ***Selected Topics in Exercise Science*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EXCI 320 ***Stress, Health and Disease*** (3 credits)

Prerequisite: EXCI 254, 257. This course is an introduction to the role stress plays in health and disease. Topics dealt with in this seminar-based course include defining and measuring stress, the relationship between stress and disease (e.g. cardiovascular disease, asthma, cancer, infectious illness), the pathophysiology of stress, and current issues and controversies in behavioural medicine. *NOTE: Students who have received credit for this topic under an EXCI 398 number may not take this course for credit.*

EXCI 322 ***Statistics for Exercise Science*** (3 credits)

Prerequisite: EXCI 250 and enrolment in the Honours program; or permission of the Department. This course builds on students' experience derived from EXCI 250 to advance their knowledge of the research process by providing details of statistical techniques and methods that are common in exercise science. Lectures only.

EXCI 323 ***Research Experience in Exercise Science*** (3 credits)

Prerequisite: EXCI 250 and enrolment in the Honours program. This course provides students with hands-on research experience. They learn a new technique, engage in data collection, and produce a literature review in an area related to the research of the supervising professor. Laboratory only.

EXCI 351 ***Introduction to the Biomechanics of Human Movement*** (3 credits)

Prerequisite: EXCI 253; PHYS 204, 224 or equivalent. The primary focus of this course concentrates on the mechanical principles of human movement. Fundamental principles of kinematics and kinetics are examined in a theoretical and practical context. Lectures and laboratory.

EXCI 352 ***Essentials of Exercise Testing and Training in Athletic Populations*** (3 credits)

Prerequisite: EXCI 252. This course utilizes the students' background knowledge of anatomy, physiology, biomechanics, exercise physiology, and exercise programming to design pre-season, in-season, and post-season conditioning programs for elite athletes in a variety of sports. Most importantly, this course focuses on the importance of applying scientific principles of training in the design of exercise programs for elite athletes. The importance of skill-related (i.e. speed, agility, and power) and health-related components (i.e. cardio-respiratory endurance, and muscle strength) of physical fitness relative to performance is emphasized in this course. Some of the topics covered include ergogenic aids, regulation of skeletal muscle mass, periodization, aerobic endurance and resistance exercise training, and plyometrics. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 452 may not take this course for credit.

EXCI 355 ***Neural Control of Human Movement*** (3 credits)

Prerequisite: EXCI 254, 257. Following a brief review of the nervous system anatomy and the functional properties of the neuron, students are introduced to the basic principles of the neural control of human movement, including reference to the sensory systems (visual, auditory, vestibular, proprioceptive and kinesthetic). Select pathologies and disorders of the nervous system and their resulting neuromuscular deficits are presented, as well as neuro-rehabilitative techniques and strategies. Lectures only.

EXCI 357 ***Human Physiology II: The Cardiovascular and Respiratory Systems*** (3 credits)

Prerequisite: EXCI 257. This course deals with the structural, the fundamental mechanisms and the functional control of the cardiovascular and respiratory systems. A detailed analysis of the rhythmical control of the heart, cardiovascular hemodynamics, capillary and coronary circulations, control of arterial blood pressure, the regulation of heart rate, cardiac output, and the peripheral vasculature is discussed. With respect to respiratory physiology, selected topics including pulmonary mechanics, principles of gas exchange and diffusion, transport of oxygen and carbon dioxide in the blood, and the regulation of respiration are addressed. Lectures and laboratory.

EXCI 358 ***Physiology of Exercise*** (3 credits)

Prerequisite: EXCI 357. This course deals with the physiological adjustments and adaptations to physical activity. Special emphasis is placed on examining the functional capacity of the cardiovascular, respiratory, neuromuscular, and endocrine systems to acute exercise and the process of adaptation to exercise training.

Lectures and laboratory.
NOTE: Students who have received credit for EXCI 456 may not take this course for credit.

EXCI 380 *Adapted Physical Activity*
(3 credits)

Prerequisite: EXCI 210 and enrolment in the Clinical Exercise Physiology Specialization. This course examines the pathology associated with selected physical impairments and disabilities including sensorial, neurological, and orthopaedic conditions. Appropriate adapted physical activities are presented together with contraindications to physical activity and the role of environmental factors. Students experience clinical environments through field-trip activities. Lectures only.

EXCI 383 *Clinical Exercise Physiology Internship I* (3 credits)

Prerequisite: Enrolment in the Clinical Exercise Physiology Specialization and fulfilment of internship eligibility requirements. This course offers students the opportunity to observe and participate in physical activity programming offered for special populations (i.e. persons with neurological and physical impairments) in a supervised setting. This course involves a commitment of 120 hours including a weekly seminar.

EXCI 398 *Selected Topics in Exercise Science* (3 credits)

EXCI 399 *Selected Topics in Exercise Science* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EXCI 420 *Physical Activity Epidemiology*
(3 credits)

Prerequisite: EXCI 358. This course surveys the health-related aspects of exercise, physical activity, and physical fitness from the perspective of epidemiology. Topics include an introduction to the epidemiological process, the relationship between physical activity and disease (e.g. cardiovascular disease, obesity, cancer, mental illness), the biological mechanisms for healthy adaptations to physical activity, the behavioural determinants of physical activity, and public policy implications of the current literature.

NOTE: Students who have received credit for this topic under an EXCI 498 number may not take this course for credit.

EXCI 422 *Pathophysiology in Clinical Exercise Science I* (3 credits)

Prerequisite: EXCI 252, 358 or equivalent; enrolment in the Clinical Exercise Physiology Specialization. This course reviews pathophysiology, medical intervention techniques, and medication profiles of the most common cardiovascular, respiratory, oncologic and metabolic diseases. Lectures only.

EXCI 423 *Pathophysiology in Clinical Exercise Science II* (3 credits)

Prerequisite: EXCI 252, 358 or equivalent; enrolment in the Clinical Exercise Physiology Specialization. This course reviews pathophysiology, medical intervention techniques, and medication profiles of the most common neuromuscular and orthopaedic diseases and disabilities. Lectures only.

EXCI 424 *Honours Seminar I: Issues and Methods in Exercise Science*
(3 credits)

Prerequisite: EXCI 322, 323; enrolment in the Honours program. Using a combination of guest speakers and student presentations, this seminar is geared to critically examining current issues and methods in exercise science. Its emphasis is on practical and methodological issues as they relate to selected topics from these areas. Examples of topics include ethical issues and new emerging theories in exercise science, and utility of a particular research technique or methodology. Lectures only.

EXCI 425 *Honours Seminar II: Current Topics in Exercise Science*
(3 credits)

Prerequisite: EXCI 322, 323; enrolment in the Honours program. Using a combination of guest speakers and student presentations, this seminar is geared to critically examining current topics in exercise science. Its emphasis is on the theoretical basis of issues as they relate to selected topics in the student's specific areas of research. Lectures only.

EXCI 426 *Honours Thesis* (6 credits)

Prerequisite: EXCI 322, 323; EXCI 424, 425 previously or concurrently; enrolment in the Honours program. This course requires the student to propose and conduct a study and submit a thesis according to a recognized and approved scientific journal format. The work is supervised by a thesis chair selected by the student from within the Department.

EXCI 440 *Current Developments in the Biochemistry of Exercise*
(3 credits)

Prerequisite: EXCI 358. This course offers an in-depth examination of the current topics and literature in biochemistry as they relate to the adaptations associated with exercise training. The course is designed to integrate knowledge from the disciplines of Exercise Science and Biochemistry, to facilitate the synthesis and evaluation of new ideas, and to promote the effective communication (oral and written) of these ideas.
NOTE: Students who have received credit for this topic under an EXCI 498 number may not take this course for credit.

EXCI 445 *Nutrition in Exercise and Sport*
(3 credits)

Prerequisite: EXCI 358. This course provides an overview of the anatomy and in-depth study

of the physiology of the digestive system prior to examining the significance of carbohydrates, lipids, and proteins as essential nutritional requirements for physical activity and optimal performance. The importance of trace minerals and vitamins is also discussed. Specific issues such as the use of nutritional beverages, ergogenic aids, eating disorders, and nutritional concerns of athletes are some of the topics presented. Lectures only.

EXCI 450 *Physical Fitness Assessment, Exercise Prescription and Rehabilitation in Special Populations* (3 credits)

Prerequisite: EXCI 252, 358, 422, 423 previously or concurrently. This course focuses on the assessment of the health-related components of physical fitness in individuals with chronic degenerative diseases. These health-related components include cardiorespiratory endurance, muscular fitness, flexibility, and body composition. Furthermore, students learn how to design safe and effective exercise programs through proper exercise prescription for these same individuals. Cancer, musculoskeletal disorders, and cardiovascular, pulmonary, and metabolic diseases are samples of the degenerative diseases that are examined in this course. Lectures and laboratory.

EXCI 451 *Clinical Biomechanics* (3 credits)

Prerequisite: EXCI 351, 355 previously or concurrently. This course addresses biomechanical aspects of the most common structural and neurological abnormalities of the spine resulting in pathological gait. It also addresses the mechanics of tissue and joint injury of the head, neck, torso, and extremities. Lectures only.

EXCI 455 *Physical Activity, Health and Aging* (3 credits)

Prerequisite: EXCI 358. This course addresses the health status, physical fitness, exercise patterns, and effectiveness of exercise prescription for the well elderly and those exhibiting symptoms of chronic diseases which commonly accompany the aging process. Lectures and laboratory.

EXCI 458 *Pediatric Exercise Science* (3 credits)

Prerequisite: EXCI 351, 358. This course introduces students to the anatomical, physiological, and psychosocial issues related to exercise and physical activity in children. Topics include influence on growth and health, injury potential, endurance exercise, weight training, youth in sport, competitive and collaborative play, stress in childhood, and the strategies for improving exercise habits of children. Lectures only.

EXCI 483 *Clinical Exercise Physiology Internship II* (3 credits)

Prerequisite: Enrolment in the Clinical Exercise Physiology Specialization and fulfilment of internship eligibility requirements. The course offers a supervised period of work as activity leader/exercise specialist in a hospital or rehabilitation centre assisting in performing physiological evaluations, designing exercise programs, and animating physical activities. The course involves a commitment of 120 hours including a weekly seminar.

EXCI 492 *Independent Study in Exercise Science* (3 credits)

Prerequisite: Completion of 60 credits in the Exercise Science Major or Specialization Programs and written permission of the Department Chair. This course provides an opportunity to conduct a small-scale scientific research project under the supervision of a faculty member from the Department. In consultation with a faculty member, the student selects a topic, formulates a research methodology, collects data, analyses the results, and writes a formal research report. *NOTE: Students who have received credit for EXCI 491 may not take this course for credit.*

EXCI 498 *Advanced Topics in Exercise Science* (3 credits)

EXCI 499 *Advanced Topics in Exercise Science* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.130 GEOGRAPHY, PLANNING AND ENVIRONMENT

Faculty	Chair ALAN E. NASH, Associate Professor	Assistant Professors PIERRE GAUTHIER DAMON MATTHEWS NORMA RANTISI CRAIG TOWNSEND																								
	Professors DAVID F. GREENE PATRICIA A. THORNTON JOHN ZACHARIAS	Adjunct Assistant Professor KAREN ST. SEYMOUR																								
	Associate Professors JACQUELINE M. ANDERSON PASCALE BIRON MONICA MULRENNAN JUDITH PATTERSON	Distinguished Professor Emeritus BRIAN SLACK																								
Location	Sir George Williams Campus Hall Building, Room: H 1255-26 514-848-2424 ext. 2050																									
Department Objectives	The Department of Geography, Planning and Environment focuses on the processes and practices of human intervention in the natural, cultural, and built environment. Human interventions are examined as cultural and political processes across the spectrum of biophysical settings and human settlements. The Department's aim is to provide a systematic understanding of biogeophysical environmental processes and human-environment interactions as a step towards improving policies, practices, and specific interventions. The curriculum reflects a balance among theoretical, technical, and applied aspects, and promotes environmental and spatial awareness and literacy. The Department aims to train professional geographers, environmental scientists, and urban planners, as well as to produce articulate and informed graduates who are committed to improving the quality and sustainability of the natural, human, and built environment.																									
Programs	<p>The Department offers Honours, Specialization, and Major programs leading to a BA in Human Environment, a BA in Urban Planning or Urban Studies, and a BSc in Environmental Science or Environmental Geography. Students wishing to follow a BSc must meet the entry profile for that program (see §31.002 — Programs and Admission Requirements — Profiles).</p> <p><i>It is strongly recommended that students planning graduate studies follow the appropriate Honours or Specialization program.</i></p> <p><i>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor during stage two of their program. In addition to meeting the Faculty requirements (see §31.003 Honours Regulations), the Department requires a statement of intent which specifies the proposed topic and supervisor for the Honours Essay (GEOG 491 or URBS 491).</i></p> <p><i>All students in department programs must be advised annually to receive permission to register for courses or to replace, substitute, or be exempted from any course within their program. Urban Studies students should consult the Director of Urban Studies; all other program students should consult the Geography undergraduate advisor.</i></p> <p><i>Students are responsible for satisfying their particular degree requirements.</i></p> <p><i>The superscript indicates credit value.</i></p> <table><tr><td>60</td><td>BA Honours in the Human Environment</td><td>6</td><td>Chosen from GEOG 317³, 318³, 330³, 355³</td></tr><tr><td></td><td><i>Stage I</i></td><td>6</td><td>Chosen from GEOG 374³, 375³, 376³, 377³, 378³</td></tr><tr><td>15</td><td>GEOG 220³, 260³, 272³, 274³, 290³</td><td></td><td></td></tr><tr><td>3</td><td>Chosen from GEOG 210³; GEOL 210³; URBS 230³</td><td>12</td><td>Elective credits in Geography at the 400 level</td></tr><tr><td></td><td><i>Stage II</i></td><td></td><td></td></tr><tr><td>12</td><td>GEOG 300³, 361³, 362³, 363³</td><td>6</td><td>GEOG 491⁶</td></tr></table>		60	BA Honours in the Human Environment	6	Chosen from GEOG 317 ³ , 318 ³ , 330 ³ , 355 ³		<i>Stage I</i>	6	Chosen from GEOG 374 ³ , 375 ³ , 376 ³ , 377 ³ , 378 ³	15	GEOG 220 ³ , 260 ³ , 272 ³ , 274 ³ , 290 ³			3	Chosen from GEOG 210 ³ ; GEOL 210 ³ ; URBS 230 ³	12	Elective credits in Geography at the 400 level		<i>Stage II</i>			12	GEOG 300 ³ , 361 ³ , 362 ³ , 363 ³	6	GEOG 491 ⁶
60	BA Honours in the Human Environment	6	Chosen from GEOG 317 ³ , 318 ³ , 330 ³ , 355 ³																							
	<i>Stage I</i>	6	Chosen from GEOG 374 ³ , 375 ³ , 376 ³ , 377 ³ , 378 ³																							
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3	Chosen from GEOG 210 ³ ; GEOL 210 ³ ; URBS 230 ³	12	Elective credits in Geography at the 400 level																							
	<i>Stage II</i>																									
12	GEOG 300 ³ , 361 ³ , 362 ³ , 363 ³	6	GEOG 491 ⁶																							

60 BA Specialization in the Human Environment

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
3 Chosen from GEOG 210³; GEOL 210³;
URBS 230³

Stage II

- 12 GEOG 300³, 361³, 362³, 363³
6 Chosen from GEOG 317³, 318³, 330³, 355³
6 Chosen from GEOG 374³, 375³, 376³,
377³, 378³

Stage III

- 12 Elective credits in Geography at the 400
level
6 Elective credits in Geography at the 300
or 400 level

42 BA Major in the Human Environment

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
3 Chosen from GEOG 210³; GEOL 210³;
URBS 230³

Stage II

- 12 GEOG 300³, 361³, 362³, 363³
3 Chosen from GEOG 317³, 318³, 330³, 355³
3 Chosen from GEOG 374³, 375³, 376³,
377³, 378³

Stage III

- 6 Elective credits in Geography at the 400
level

69 BSc Honours in Environmental Science

Stage I

- 9 BIOL 225³, 226³; GEOG 290³
3 COMP 218³ or 248³
6 Chosen from GEOG 272³, 274³;
GEOL 210³

- 3 GEOG 260³ or GEOL 216³
3 CHEM 212³ or 217³

Stage II

- 6 BIOL 322³; GEOG 363³
3 Chosen from BIOL 321³; GEOG 355³;
GEOL 302³
9 Chosen from GEOG 374³, 375³, 376³,
377³, 378³
6 Chosen from BIOL 350³, 351³, 353³, 367³,
381³, 385³; CHEM 271³; CIVI 361^{3.5*};
GEOL 331³; ENGR 251³

Stage III

- 3 GEOG 463³ or 465³
12 Chosen from BIOL 451³, 457³, 459³;
CHEM 375³, 470³, 472³; GEOG 458³, 467³,
470³, 474³, 475³, 498^{3**}; GEOL 415³, 440³;
CIVI 467³, 468³, 469^{3.5}
6 Chosen from BIOL 490⁶; GEOG 491⁶;
GEOL 414⁶

**Environmental Science students missing the prerequisites may apply to have all or some of these waived by the Department of Building, Civil and Environmental Engineering.*

***Where the subject matter is of an environmental science nature.*

69 BSc Specialization in Environmental Science

Stage I

- 9 BIOL 225³, 226³; GEOG 290³
3 COMP 218³ or 248³
6 Chosen from GEOG 272³, 274³;
GEOL 210³

- 3 GEOG 260³ or GEOL 216³

- 3 CHEM 212³ or 217³

Stage II

- 6 BIOL 322³; GEOG 363³
3 Chosen from BIOL 321³; GEOG 355³;
GEOL 302³
9 Chosen from GEOG 374³, 375³, 376³,
377³, 378³
6 Chosen from BIOL 350³, 351³, 353³, 367³,
381³, 385³; CHEM 271³; CIVI 361^{3.5*};
GEOL 331³; ENGR 251³

Stage III

- 3 GEOG 463³ or 465³
18 Chosen from BIOL 451³, 457³, 459³;
CHEM 375³, 470³, 472³; GEOG 458³, 467³,
470³, 474³, 475³, 498^{3**}; GEOL 415³, 440³;
CIVI 467³, 468³, 469^{3.5}

**Environmental Science students missing the prerequisites may apply to have all or some of these waived by the Department of Building, Civil and Environmental Engineering.*

***Where the subject matter is of an environmental science nature.*

45 BSc Major in Environmental Geography

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
3 GEOL 210³
3 Chosen from BIOL 225³, 226³, 227³

Stages II & III

- 12 GEOG 300³, 361³, 362³, 363³
12 300- or 400-level credits chosen from
the BSc Geography/Geology course list
or in consultation with the appropriate
departmental advisor. At least three
credits must be at the 400 level.

30 Minor in the Human Environment

- 15 GEOG 220³, 260³, 272³, 274³, 290³
3 GEOG 300³
12 GEOG elective credits at the 300 or 400
level

NOTE: This Minor is intended for Arts students.

24 Minor in Environmental Geography

- 6 GEOG 272³, 274³
3 GEOL 210³
9 Chosen from GEOG 300³, 363³, 374³,
375³, 376³, 377³, 378³; GEOL 302³, 331³
6 Chosen from GEOG 406³, 458³, 463³, 467³,
470³, 472³, 474³, 475³; GEOL 415³, 440³

NOTE: This Minor is intended for Science students.

Students in programs leading to the BSc degree may take the courses in Geography/Geology listed below for credits to be applied to their program of concentration.

GEOG 260	Mapping and the Environment (3 credits)
GEOG 272	The Natural Environment: Air and Water (3 credits)

GEOG 274	The Natural Environment: Land and Life (3 credits)
GEOG 361	Research Design and Qualitative Methods (3 credits)
GEOG 362	Statistical Methods (3 credits)
GEOG 363	Geographic Information Systems (3 credits)
GEOG 374	Plant Ecology (3 credits)
GEOG 375	Hydrology (3 credits)
GEOG 376	Biogeography (3 credits)
GEOG 377	Landform Evolution (3 credits)
GEOG 378	The Climate System (3 credits)
GEOG 458	Environmental Impact Assessment (3 credits)
GEOG 463	Advanced Geographic Information Systems (3 credits)
GEOG 465	Remote Sensing (3 credits)
GEOG 466	Cartographic Visualization (3 credits)
GEOG 470	Environmental Management (3 credits)
GEOG 472	Environmental Change during the Quaternary (3 credits)
GEOG 473	Environment and Health (3 credits)
GEOG 474	Forest Management (3 credits)
GEOL 210	Introduction to the Earth (3 credits)
GEOL 216	Field Methods (3 credits)
GEOL 302	Palaeobiology (3 credits)
GEOL 331	Evolution of the Earth (3 credits)
GEOL 415	Plate Tectonics and Crustal Evolution (3 credits)
GEOL 440	Seminar in Current Research on Environmental Earth Science (3 credits)

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Geography

GEOG 200 *World Geography* (3 credits)
This course provides an overview of world geography. It first examines the main environmental and social factors that geographers have employed to divide the world into a series of distinctive regions, and uses examples of specific countries to explore the distinctive geographical processes by which these patterns are transformed and perpetuated.
NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 203 *Canadian Environmental Issues* (3 credits)
This course explores a number of contemporary and controversial environmental issues in Canada. It provides a general overview of the policy context of environmental decision-making, focusing in particular on the involvement of aboriginal groups in natural resource management and the role of various levels of government, non-government organizations, the news media and the international community in shaping Canadian environmental policies. Issues explored in the course include national parks, animal rights, fisheries management, and northern development and environmental impact assessment.
NOTE: Students who have received credit for GEOG 203, SCHA 254, or for this topic under a GEOG 298 number, may not take this course for credit.
NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 204 *Global Environmental Issues* (3 credits)
This course examines a number of global

environmental issues from an interdisciplinary perspective. The complex interactions and interdependencies among the biophysical, socio-economic, political, and cultural aspects of global environmental change are explored in relation to issues such as global warming, desertification, deforestation, declining biodiversity, and acid rain.
NOTE: Students who have received credit for GEOG 204, SCHA 253, or for this topic under a GEOG 298 number, may not take this course for credit.
NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 206 *Maps and Mapping* (3 credits)
This course explores the role of maps in society. Students are introduced to basic mapping concepts in order to evaluate the meaning and use of various types of maps. Samples of the following types of maps are studied: historic maps, political maps, cognitive maps, maps in newspapers and magazines, computer-generated maps, and maps on television.
NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 209 *The Geography of a Selected Region* (3 credits)
The course includes both a systematic survey as well as an in-depth focus on particular geographical issues and problems. The specific region to be studied may vary from year to year.

GEOG 210 *Geography of Global Change* (3 credits)
This course examines a variety of geographical changes related to globalization. It focuses mainly on the global political system and the global economy, and also considers transport

and communications systems, culture, and environmental issues.

NOTE: Students who have received credit for GEOZ 210 may not take this course for credit.

GEOG 220 *The Human Environment: Place, Space, and Identity*
(3 credits)

This course examines how geographers construct the meaning of place, the unique identity of places, the contests over identity of place, and how space is socially constructed. The ways in which these have been affected by migration and globalization are then examined within the context of an already constituted social and geographical unevenness (political, economic, environmental, and cultural).

NOTE: Students who have received credit for GEOZ 220 may not take this course for credit.

GEOG 260 *Mapping the Environment*
(3 credits)

This course introduces students to the basic concepts, theory, and methods of mapping with reference to topographic and thematic maps. Through lectures, laboratories, and practical assignments, students learn about the sources of data for maps, and how these data are manipulated, represented, and interpreted in both analogue and digital form (Geographic Information Systems). Lectures and laboratory.

GEOG 272 *The Natural Environment: Air and Water* (3 credits)

This course introduces the Earth's atmosphere and hydrosphere through an examination of their structural components, processes, and variability through space and time. Topics include the global energy system, air temperature cycles, weather systems, urban climate, the water cycle, oceans, lakes, and rivers.

GEOG 274 *The Natural Environment: Land and Life* (3 credits)

This course introduces the Earth's lithosphere and biosphere through an examination of their structural components, processes, and variability through space and time. Topics include the tectonic system, volcanic activity, landscape and landform development, soils, biogeochemical cycling, succession, and biomes.

GEOG 290 *Environment and Society*
(3 credits)

Prerequisite: GEOG 220, 272; 274 concurrently.*

This course integrates human and physical geography into a holistic view of human-environment relations. It focuses on a few key environmental issues through case studies operating at a variety of scales (global, national, regional, local), and in different places and time periods. It examines how humans interact with the environment; how they, as members of societies and bearers of culture, perceive, use, transform, and manage the physical environment in different ways and are in turn impacted by changes to that environment. Each case study highlights a specific method and tool of geographic analysis and

introduces students to the value of different approaches to environmental issues.

**NOTE: Students enrolled in either the BSc Honours or Specialization in Environmental Science are not required to have the GEOG 220 prerequisite, and may substitute GEOL 210 for either GEOG 272 or 274.*

GEOG 298 *Selected Topics in Geography*
(3 credits)

GEOG 299 *Selected Topics in Geography*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Geography Course Guide.

GEOG 300 *Environment: Historical and Cultural Perspectives* (3 credits)

Prerequisite: GEOG 290 or permission of the Department. This course explores selected aspects of nature and culture in Western thought. It focuses on four overlapping themes: 1) it presents a broad historical overview of the questions that humans have posed concerning the habitable earth and their relationships to it; 2) it looks in more detail at one of those questions, namely, the extent to which human agency has transformed the earth; 3) it explores the relations between attitudes, values and behaviour, focusing mainly on the idea of wilderness; and 4) it traces the roots and describes the main characteristics of contemporary environmentalism.

GEOG 301 *The Sustainable University Campus* (3 credits)

Prerequisite: 30 university credits or permission of the Department. With the campus as the laboratory, this course explores and contributes to building a more sustainable campus community. It is designed to support Concordia's commitment to sustainability while providing students with an applied learning experience. Students gain experience in planning and implementing interdisciplinary research projects using a variety of qualitative and quantitative techniques. They learn about participatory action research, the application of sustainability concepts in a living and learning organization, and work in teams to develop creative and actionable projects that contribute to moving the university in a more sustainable direction. The course integrates theory and practice. The Concordia Campus Sustainability Assessment as well as recent literature and case studies from the sustainability assessment and reporting fields form the theoretical foundations of the course. The course uses lectures, guest speakers, workshops, and project work as learning tools.
NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.

GEOG 317 *Population Geography*
(3 credits)

Prerequisite: GEOG 220 or permission of the

Department. This course focuses on demographic processes and their relevance to current planning and policy issues. The lectures examine evolving patterns of fertility, mortality, and migration, the spatial and temporal processes that fashion them, and their interaction as expressed in population growth, age structure, and policy issues such as ageing, low fertility in post-industrial societies, high fertility and poor health in some less developed countries. In response to now widely available electronic demographic data, the laboratory develops students' skills in the methods of demographic analysis and interpretation through the use of desktop spreadsheet programs (Excel). Lectures and laboratory.

GEOG 318 *Vanishing Borders: Regions and the New International Order* (3 credits)

Prerequisite: GEOG 220, or completion of 30 credits for students enrolled in a Social Science program, or permission of the Department. This course examines the argument that as globalization reduces and removes the effects of international boundaries, regions are becoming more important in the global economy and in the global political system. Emerging new forms of regionalism are discussed, such as transborder regions, regions based on transnational economic integration, and hi-tech regions. The changing nature of more traditional regions, such as metropolitan regions and regions based on sub-state nationalism is also considered.

GEOG 321 *A World of Food* (3 credits)

Prerequisite: Twenty-four University credits. This course examines the geographical processes that have affected the production and consumption of food from the beginnings of agriculture to the rise of genetically modified organisms, and considers the part played by different patterns of diet and cuisine in shaping distinctive regions at the global and local scale. *NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.*

GEOG 330 *Urban Geography* (3 credits)

Prerequisite: GEOG 220 or permission of the Department. The geographer's view of the city is explored at two scales: cities as elements of an urban system, including topics such as urbanization and the functional structure of cities; and intra-urban patterns, including the spatial arrangement of land-use and social areas.

GEOG 333 *Urban Transportation* (3 credits)

Prerequisite: GEOG 220 or URBS 230 or permission of the Department. This course examines the past evolution and recent functioning of various transport modes in cities around the world. Recent debates about desirable levels of car, transit, and non-motorized modes feature prominently. Techniques of analysing urban transport and public policy options are considered in light of burgeoning concerns about sustainable development and the worldwide growth of motorization.

GEOG 342 *The Making of the Irish Landscape* (3 credits)

Prerequisite: Second-year standing or permission of the Department. This course focuses on the evolution of the Irish landscape and examines the physical, political, social, economic and attitudinal processes that have shaped the cultural landscape from prehistoric times to the present. *NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.*

GEOG 355 *Resource Analysis and Management* (3 credits)

Prerequisite: GEOG 290 or permission of the Department. The course is concerned with the use of the Earth's natural resources and with the economic, institutional, and ecological factors that affect, condition, and control the use of these resources. It examines various approaches to analysing, evaluating, and resolving resource issues and conflicts. These approaches are applied to Canadian forestry, fisheries, water, energy, and mineral resources.

GEOG 361 *Research Design and Qualitative Methods* (3 credits)

Prerequisite: GEOG 260 or permission of the Department. This course introduces students to commonly employed methods and techniques for undertaking social science research. After reviewing the philosophical considerations underlying particular research traditions and the merits and limitations of distinct types of research strategies, the course examines specific sets of methods and the kinds of questions and research topics for which they are best suited. The focus is on qualitative methods but also examines the complementarity of qualitative and quantitative techniques and the broader research designs in which quantitative techniques can be employed. Readings are supplemented with in-class and field exercises. Lectures and tutorial. Occasional involvement in field work outside of class time is required.

NOTE: Students who have received credit for GEOG 360 may not take this course for credit.

GEOG 362 *Statistical Methods* (3 credits)

Prerequisite: GEOG 361 or permission of the Department. This course introduces statistical methods for geographers. Topics include sampling, data manipulation, probability distributions, statistical inference, hypothesis testing, correlation and regression. Lectures and laboratory.

NOTE: Students who have received credit for GEOG 360 may not take this course for credit.

GEOG 363 *Geographic Information Systems* (3 credits)

Prerequisite: GEOG 260, 290; or permission of the Department. This course is an introduction to the nature, role, and value of Geographic Information Systems (GIS). Through lectures and practical assignments students examine the data requirements (sources and structure) and hardware and software requirements of GIS as well as ways of

using GIS for spatial analysis and modelling. Concepts are applied in the laboratory using ArcGIS. Lectures and laboratory.

GEOG 374 Plant Ecology (3 credits)
Prerequisite: GEOG 272, 274; or permission of the Department. This course examines plant community dynamics as a consequence of the population dynamics of the constituent plant species. The role of natural disturbances is stressed, particularly as it relates to forests. Concepts are applied to problems in park management, vegetation mapping, and present controversies about the maintenance of species diversity. Lectures and laboratory. Occasional involvement in field work outside of class time is required.

GEOG 375 Hydrology (3 credits)
Prerequisite: GEOG 272, 274; or permission of the Department. The course examines the hydrologic cycle, with a main focus on surface hydrology. Topics covered include the organization of the river network, precipitation over a watershed, runoff, flood frequency analysis, estimation of peak streamflows, flow, and sediment transport in rivers. Assignments provide experience in the practical aspects of hydrological data treatment using Canadian examples. The course aims at understanding the mechanics of processes governing the motion of water on hillslopes and in rivers, which are essential to water management. Lectures and tutorial.

GEOG 376 Biogeography (3 credits)
Prerequisite: GEOG 272, 274; or permission of the Department. This course examines the spatial distribution of animals and plants at large scales and over long periods. Topics include vegetation distribution in relation to climate, island biogeography, long-distance dispersal, diversity gradients, mass extinctions, speciation, and taxonomic distribution in relation to plate drifting. This course involves field trips.
NOTE: Students who have received credit for GEOG 371 may not take this course for credit.

GEOG 377 Landform Evolution (3 credits)
Prerequisite: GEOG 272; GEOG 274 or GEOL 210; or permission of the Department. This course examines the processes responsible for the development and evolution of the Earth's landforms, including human modifications to those landforms. Topics include the study of fluvial, coastal, glacial, periglacial, and arid landforms. Lectures and laboratory.
NOTE: Students are strongly encouraged to take GEOL 210.

GEOG 378 The Climate System (3 credits)
Prerequisite: GEOG 272, 274; or permission of the Department. This course compares the climate systems of the tropics and the mid-latitudes; examines the differing climate systems over oceans, deserts, grasslands, forests, and frozen surfaces; and explores the acquisition of climate data from traditional instruments, automated weather stations, and the Internet.

It concludes with a brief discussion of climate modelling. Students are responsible for taking observations at the Department's weather station.

GEOG 398 Selected Topics in Geography (3 credits)

GEOG 399 Selected Topics in Geography (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOG 406 The Tropical Rain Forest (3 credits)

Prerequisite: GEOG 374 or permission of the Department. This course focuses on three themes: (1) how tropical forest ecosystems function; (2) the extent, causes, and consequences of deforestation; and (3) conservation principles as applied to tropical forest fragments. There is a particular emphasis on the New World.

GEOG 407 Indigenous Resource Management (3 credits)

Prerequisite: GEOG 300 or permission of the Department. This course explores the relationship between indigenous peoples and the environment. It focuses on two primary themes: first, it looks at ways in which ecological knowledge shapes indigenous resource management, land tenure, and sea-rights systems; and second, it examines the roles of indigenous peoples and state authorities in land, sea, and resource management.
NOTE: Students who have received credit for GEOG 304 or for this topic under a GEOG 498 number may not take this course for credit.

GEOG 417 Population and the Environment (3 credits)

Prerequisite: GEOG 317 or permission of the Department. This course examines the scientific basis for concern that the world is, or soon will be, overpopulated. Two themes are emphasized: (1) environmental stress is the product of lifestyles and the production systems that support lifestyles, as well as population numbers and growth; (2) the relationship between population and environment is mediated by social organization; people are both constrained by social structures, and intelligent human agents of demographic and environmental change. The course examines these issues from theoretical, historical, empirical, and policy perspectives.

GEOG 431 Urban Planning in the Developing World (3 credits)

Prerequisite: GEOG 330 or permission of the Department. This course explores the growth and planning of large metropolitan areas in developing nations, with a focus on East and South East Asia. Issues and problems associated with recent urbanization are examined along with potential solutions offered by urban planning and public policies. The planning roles of institutions including governments, multilateral development

agencies, and non-governmental organizations are reviewed.

NOTE: Students who have received credit for GEOG 430 or URBS 481, or for this topic under a URBS 398, URBS 498, or GEOG 498 number, may not take this course for credit.

GEOG 438 Urban Ecology (3 credits)

Prerequisite: GEOG 330 or permission of the Department. The city is viewed as an interdependent and interactive system. The issues surrounding ecological, economic, and socio-cultural sustainability are examined in the context of the development of public policy. The integration of a spectrum of ecological approaches and standards is a major theme in individual research projects undertaken in this course.

NOTE: Students who have received credit for URBS 438 may not take this course for credit.

GEOG 440 Geography and Public Policy (3 credits)

Prerequisite: 33 credits in Geography or permission of the Department. This course examines the relationship between geographical approaches to problems and issues, and the public policy process. It discusses such topics as the relevance of geographical information and geographical research to policy makers, the need for assessment of the spatial and environmental impact of public policies, and the role of geographers in the public policy process.

GEOG 450 Industrial Restructuring (3 credits)

Prerequisite: GEOG 318 or URBS 380 or permission of the Department. In the age of globalization and heightened market uncertainty, firms are assuming new spatial and organizational forms to remain innovative and competitive. This course surveys both theories and policies on these restructuring initiatives in advanced capitalist countries. In addition to assessing the new challenges and opportunities that firms face in the present context, the course examines the changing role of national, state, and local governments in encouraging and shaping new economic development strategies.

NOTE: Students who have received credit for URBS 450 or for this topic under a GEOG 498 or URBS 498 number may not take this course for credit.

GEOG 458 Environmental Impact Assessment (3 credits)

Prerequisite: GEOG 355 or permission of the Department. This course examines the conceptual bases, procedures, and methodology of Environmental Impact Assessment (EIA). The effectiveness of EIA as a decision-making process in the promotion of good environmental planning is analysed, including its role in assessing the potential effects of certain activities on the natural environment as well as on social, cultural, and economic aspects of the environment.

GEOG 463 Advanced Geographic Information Systems (3 credits)

Prerequisite: GEOG 363; GEOG 362 or

BIOL 322; or permission of the Department. This course in Geographic Information Systems (GIS) focuses on database structure and management as well as advanced spatial analysis techniques. It considers both practical and theoretical questions of interpretation of GIS in the context of particular problems and real data sets. The course involves hands-on use of ArcGIS software in a laboratory setting. Lectures and laboratory.

GEOG 465 Remote Sensing (3 credits)

Prerequisite: GEOG 363 or permission of the Department. This course provides basic knowledge about the theory and practice of remote sensing, its potential and limits. The course is divided in five parts: 1) fundamentals of remote sensing, where the physical basis of remote sensing is explained; 2) sensors and orbits (different types of sensors, passive, active, and thermal sensors); 3) digital image processing, looking at image enhancement, filtering, classification, and how to obtain thematic data from raw imagery; 4) applications of remote sensing such as forestry, urban studies, water pollution, and agriculture; and 5) problems and challenges associated with remote sensing. Practical examples for all these topics will be covered in the laboratory sessions. Lectures and laboratory.

GEOG 466 Cartographic Visualization (3 credits)

Prerequisite: GEOG 260, 363; or permission of the Department. This course explores the map as a means of spatial representation from the perspective of visual thinking and visual communication. In an examination of theoretical issues concerning how maps work, an emphasis is placed upon the nature and importance of map symbolization and design. The practical application of these theoretical concepts is provided through the design and production of computer-assisted maps, which constitute an integral part of the course. Lectures and laboratory.

NOTE: Students who have received credit for GEOG 366 may not take this course for credit.

GEOG 467 Environmental Modelling (3 credits)

Prerequisite: GEOG 362 or BIOL 322; permission of the Department. The different approaches to modelling the biophysical, built, or human environment are examined. The conceptualization of simple models to examine how human interventions affect the environment is investigated. Different modelling approaches such as system models, computer visualization and simulation are covered. Students develop a model scheme related to a topic of interest. Lectures and laboratory.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 470 Environmental Management (3 credits)

Prerequisite: GEOG 375 or 377, or permission of the Department. This course applies fundamental

principles concerning the biophysical environment to the development of strategies and policies for managing the environment. It takes a case-study approach to the management of coastal and fluvial environments. Topics covered include strategies and policies involved in sea defence, beach protection, integrated coastal zone management, flood alleviation, river stabilization, and river restoration schemes.

GEOG 472 *Environmental Change during the Quaternary* (3 credits)

Prerequisite: Six credits of physical geography at the 300 level or permission of the Department. This course examines environmental change over the last three million years to show how the biophysical environment and the landscape of the Earth have changed during the time that humans have lived on the planet. Theories covered include climate and sea-level changes as well as changes in vegetation associations, sea-ice cover, and numbers of mammals. Particular attention is paid to the degree and frequency of change and techniques of assessing environmental change.

NOTE: Students who have received credit for GEOG 372 or this topic under a GEOG 498 number may not take this course for credit.

GEOG 473 *Environment and Health* (3 credits)

Prerequisite: GEOG 317 or permission of the Department. This course examines geographical approaches to the study of health, focusing on the investigation of spatial variations in disease incidence, the ecology of selected diseases, and the links between health and the biophysical, social, and built environment. Focus is placed on critical examinations of approaches and methods of explanation.

GEOG 474 *Forest Management* (3 credits)

Prerequisite: GEOG 374 or permission of the Department. This course looks at changes in the exploitation and management of the forest resource in Canada. Topics include the history of cutting strategies and their effect on species composition; the effects of technological changes in harvesting, transportation and milling on forests; and the evolution of modern forest management philosophies and approaches.

GEOG 475 *Water Resource Management* (3 credits)

Prerequisite: GEOG 355; GEOG 375 or 377; or permission of Department. This course examines the complexity of, and necessity for, better water resource management from the viewpoint of ecological and economic sustainability as well as social equity and basic human health and dignity. Topics include the qualities, values, and uses of water — consumptive and non-consumptive, economic and environmental; major regional and global water management issues; factors affecting water supply reliability and challenges to maintain and improve long-term quality and equitable service in different situations; and the ways domestic, industrial, and agricultural water

users can conserve water.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 490 *Internship in Geography* (3 credits)

Prerequisite: Permission of the Department.

This course provides final-year students the opportunity to apply their geographical skills and training in a workplace environment. In consultation with the supervisor, students identify a placement related to their interests, develop and carry out a project approved by both employer and academic supervisor, and/or keep a daily log of how the tasks and duties performed relate to and build upon their academic studies. The internship involves 100 hours of unpaid work and contribution to a seminar series.

GEOG 491 *(also listed as URBS 491) Honours Essay* (6 credits)

Prerequisite: Permission of the Department. The course requires the student to propose and conduct a research project and to produce a substantial report under the supervision of a faculty advisor.

GEOG 498 *Advanced Topics in Geography* (3 credits)

GEOG 499 *Advanced Topics in Geography* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

Geology

GEOL 203 *Introduction to Environmental Geology* (3 credits)

Prerequisite: GEOL 210 recommended.

Environmental geology is concerned with the physical, chemical, and biological processes that have acted, and continue to act, upon the planet, shaping its evolution. The course examines the interactions of lithosphere, mantle, core, biosphere, atmosphere, cryosphere, and hydrosphere. The earth's climate is in part determined by these earth system interactions, and climate change throughout the earth's history is a central theme of the course.

GEOL 206 *Earthquakes, Volcanoes, and Plate Tectonics* (3 credits)

This course is for students with little or no previous background in the earth sciences, providing an up-to-date account of our present knowledge of earthquakes and volcanoes, and the use of this information in the development of the theory of plate tectonics. Areas of concentration are: nature, distribution, and causes of earthquakes and volcanic eruptions, measuring earthquakes, great earthquakes and volcanic eruptions in world history, products of volcanic eruptions, and hazards from, and prediction of, earthquakes and volcanic

eruptions. The theory of plate tectonics and the evolution of mountain belts of the world are studied. Lectures only.

GEOL 208 *The Earth, Moon and the Planets* (3 credits)

The course emphasizes the cosmic perspective of the Earth and focuses attention on how the results of the last two decades of planetary exploration have brought about an intellectual revolution concerning the planets, especially their surface features, processes, and histories. Lectures only.

GEOL 210 *Introduction to the Earth* (3 credits)

This course provides an overview of the physical processes that govern how the Earth works. Topics include origin of the solar system and Earth; analysis of the internal structure of the Earth; minerals and rocks; igneous and metamorphic processes; deformation of the crust; surficial processes, including weathering, deposition and glaciation. The course culminates with the integration of these geological processes in the theory of plate tectonics, and goes on to examine the interactions of crust, mantle, atmosphere, and biosphere from this perspective. Laboratory work includes the identification of rocks and minerals, map exercises, and a field trip. Lectures and laboratory.

GEOL 216 *Field Methods* (3 credits)

Prerequisite: GEOL 210. The purpose of this course is twofold: to learn the basic methods that geologists, physical geographers, and environmental scientists use in the field (including learning how to map, measuring stratigraphic sections, and solving field problems based on observations) and to become familiar with the immediate geological environment of the Montreal region from the young Quaternary sediments, Mesozoic intrusive rocks and Paleozoic assemblages (including rocks of the St. Lawrence Lowlands) to the ancient Precambrian, crystalline basement. Two-week field school in the spring, immediately after the final examination.

GEOL 298 *Selected Topics in Geology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOL 302 *Palaeobiology* (3 credits)

Prerequisite: GEOL 210. General discussion covers taphonomy, processes and patterns of evolution, extinction, ontogeny, palaeoecology and taxonomy. Systematics, morphology, biostratigraphic value of selected macro-invertebrate fossils will be included in the latter half of the course. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 212 may not take this course for credit.

GEOL 331 *Evolution of the Earth* (3 credits)

Prerequisite: GEOL 210 or permission of the Department. The geological evolution of planet

Earth is studied in the context of the theory of plate tectonics using interpretations of stratigraphic, structural, seismic, paleontologic, and geochronologic data. A systematic review of the geological evolution of the Earth and development of life forms is examined from the time of formation of the Earth to the present, including case studies of mountain belts. In the lab, rock suites and geological maps representative of different periods of Earth history are examined. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 310 may not take this course for credit.

GEOL 398 *Selected Topics in Geology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOL 414 *Undergraduate Research* (6 credits)

Prerequisite: For third-year Honours students. Honours students in their final year are expected to show competence in isolating and examining a geological problem under the supervision of a faculty advisor. A written application to take the course, including a brief outline of the research project, must be made to the Department before April 15 of the second year. The application is reviewed by a committee and a decision forwarded by mail. The results of research must be presented in the form of an undergraduate thesis, two copies of which must be submitted by April 1. *NOTE: Written requests from Specialization students, with appropriate academic records, to take the course will be considered.*

GEOL 415 *Plate Tectonics and Crustal Evolution* (3 credits)

Prerequisite: GEOL 210; GEOL 331 or GEOG 377; or permission of the Department. Techniques of data collection in tectonics. Structure and rheology of the upper mantle. Tectonics of crustal types to include shields, platforms, passive continental margins, Phanerozoic foldbelts, continental rifts, island-arc trench belts and oceanic rises, sea-floor spreading, plate tectonics, magma associations, and plate reconstructions. Crustal origin and growth. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 315 may not take this course for credit.

GEOL 440 *Seminar in Current Research on Environmental Earth Science* (3 credits)

Prerequisite: GEOL 331 or GEOG 377, or advanced standing in an engineering program, or permission of the Department. This course covers current research in environmental Earth science; topics vary from year to year, but will generally include: mantle-biosphere-atmosphere interactions, the carbon and methane cycles, and the geological climate record. Evaluation is based on seminar participation and written work.

NOTE: Students who have received credit for

this topic under a GEOG or GEOL 498 number may not take this course for credit.

relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOL 498 *Advanced Topics in Geology*
(3 credits)
Specific topics for this course, and prerequisites

<p>31.130.1 <i>Urban Studies</i> <i>Program Objectives</i></p>	<p>Urban Studies is a multidisciplinary program, designed to introduce the student to the processes of planned change in urban environments. Urban Studies provides a core of urban-planning courses involving field studies, planning projects, and the acquisition of technical skills. Complementary courses in Sociology, Political Science, Economics, and Geography provide the necessary approaches and understanding in order to consider complex urban development. The program is designed for students planning to undertake a post-graduate degree in planning or a related field and also provides required training for work in the planning, real estate, and social service fields.</p>																																												
<p><i>Programs</i></p>	<p><i>Students are responsible for satisfying their particular degree requirements.</i> <i>The superscript indicates credit value.</i> <i>Students should consult with the Director prior to registering for Urban Studies courses. Students exempted from any required courses must replace them with others that are relevant to the program and approved by the Director. Similarly, all substitutions must be approved by the Director.</i></p> <p>For the following programs URBS 230³ and URBS 240³ may serve as prerequisites for courses in Anthropology and Sociology.</p> <table> <tr> <td data-bbox="500 751 893 783"> <p>66 BA Honours in Urban Planning</p> </td><td data-bbox="1011 751 1088 783"> <p><i>Stage III</i></p> </td></tr> <tr> <td data-bbox="500 783 893 814"> <p><i>Stage I</i></p> </td><td data-bbox="967 783 1336 814"> <p>9 URBS 433⁶, 483³</p> </td></tr> <tr> <td data-bbox="500 814 893 846"> <p>15 URBS 230³, 240³, 250³, 260³, 293³</p> </td><td data-bbox="967 814 1336 846"> <p>15 Chosen from URBS 438³, 450³, 460³,</p> </td></tr> <tr> <td data-bbox="500 846 893 877"> <p><i>Stage II</i></p> </td><td data-bbox="1011 846 1201 877"> <p>480³, 481³, 486³, 490³</p> </td></tr> <tr> <td data-bbox="500 877 893 909"> <p>15 URBS 333⁶, 335³, 360³, 380³</p> </td><td data-bbox="967 877 1336 909"> <p>42 BA Major in Urban Studies</p> </td></tr> <tr> <td data-bbox="500 909 893 940"> <p>6 GEOG 330³, 333³</p> </td><td data-bbox="1011 909 1071 940"> <p><i>Stage I</i></p> </td></tr> <tr> <td data-bbox="500 940 893 972"> <p>3 Chosen from ANTH 353³ or SOCI 353³;</p> </td><td data-bbox="967 940 1336 972"> <p>12 URBS 230³, 240³, 250³, 260³</p> </td></tr> <tr> <td data-bbox="500 972 893 1003"> <p>ANTH 355³ or SOCI 355³; ARTH 374³;</p> </td><td data-bbox="1011 972 1071 1003"> <p><i>Stage II</i></p> </td></tr> <tr> <td data-bbox="500 1003 893 1035"> <p>POLI 349³, 352³</p> </td><td data-bbox="967 1003 1336 1035"> <p>15 URBS 335³, 360³, 370³, 380³; GEOG 318³</p> </td></tr> <tr> <td data-bbox="500 1035 893 1066"> <p><i>Stage III</i></p> </td><td data-bbox="1011 1035 1071 1066"> <p>6 Chosen from ANTH 353³ or SOCI 353³;</p> </td></tr> <tr> <td data-bbox="500 1066 893 1098"> <p>12 URBS 433⁶, 491⁶</p> </td><td data-bbox="967 1066 1336 1098"> <p>ANTH 355³ or SOCI 355³; ARTH 374³;</p> </td></tr> <tr> <td data-bbox="500 1098 893 1129"> <p>15 Chosen from URBS 438³, 450³, 460³,</p> </td><td data-bbox="967 1098 1336 1129"> <p>GEOG 330³, 333³; POLI 349³, 352³;</p> </td></tr> <tr> <td data-bbox="500 1129 893 1161"> <p>480³, 481³, 486³, 490³</p> </td><td data-bbox="967 1129 1336 1161"> <p>or other courses approved by the</p> </td></tr> <tr> <td data-bbox="500 1161 893 1192"> <p>63 BA Specialization in Urban Planning</p> </td><td data-bbox="1011 1161 1299 1192"> <p>appropriate departmental advisor</p> </td></tr> <tr> <td data-bbox="500 1192 893 1224"> <p><i>Stage I</i></p> </td><td data-bbox="1011 1192 1071 1224"> <p><i>Stage III</i></p> </td></tr> <tr> <td data-bbox="500 1224 893 1255"> <p>15 URBS 230³, 240³, 250³, 260³, 293³</p> </td><td data-bbox="967 1224 1336 1255"> <p>9 Chosen from URBS 438³, 450³, 460³,</p> </td></tr> <tr> <td data-bbox="500 1255 893 1287"> <p><i>Stage II</i></p> </td><td data-bbox="1011 1255 1201 1287"> <p>480³, 481³, 486³, 490³</p> </td></tr> <tr> <td data-bbox="500 1287 893 1318"> <p>15 URBS 333⁶, 335³, 360³, 380³</p> </td><td data-bbox="967 1287 1336 1318"> <p>30 Minor in Urban Studies</p> </td></tr> <tr> <td data-bbox="500 1318 893 1350"> <p>6 GEOG 330³, 333³</p> </td><td data-bbox="1011 1318 1153 1350"> <p>6 URBS 230³, 240³</p> </td></tr> <tr> <td data-bbox="500 1350 893 1381"> <p>3 Chosen from ANTH 353³ or SOCI 353³;</p> </td><td data-bbox="967 1350 1336 1381"> <p>24 Chosen from URBS 250³, 260³, 293³,</p> </td></tr> <tr> <td data-bbox="500 1381 893 1413"> <p>ANTH 355³ or SOCI 355³; ARTH 374³;</p> </td><td data-bbox="967 1381 1336 1413"> <p>370³, 438³, 450³, 460³, 480³, 481³, 486³,</p> </td></tr> <tr> <td data-bbox="500 1413 893 1444"> <p>POLI 349³, 352³</p> </td><td data-bbox="967 1413 1336 1444"> <p>490³; GEOG 220³, 330³, 333³</p> </td></tr> </table>	<p>66 BA Honours in Urban Planning</p>	<p><i>Stage III</i></p>	<p><i>Stage I</i></p>	<p>9 URBS 433⁶, 483³</p>	<p>15 URBS 230³, 240³, 250³, 260³, 293³</p>	<p>15 Chosen from URBS 438³, 450³, 460³,</p>	<p><i>Stage II</i></p>	<p>480³, 481³, 486³, 490³</p>	<p>15 URBS 333⁶, 335³, 360³, 380³</p>	<p>42 BA Major in Urban Studies</p>	<p>6 GEOG 330³, 333³</p>	<p><i>Stage I</i></p>	<p>3 Chosen from ANTH 353³ or SOCI 353³;</p>	<p>12 URBS 230³, 240³, 250³, 260³</p>	<p>ANTH 355³ or SOCI 355³; ARTH 374³;</p>	<p><i>Stage II</i></p>	<p>POLI 349³, 352³</p>	<p>15 URBS 335³, 360³, 370³, 380³; GEOG 318³</p>	<p><i>Stage III</i></p>	<p>6 Chosen from ANTH 353³ or SOCI 353³;</p>	<p>12 URBS 433⁶, 491⁶</p>	<p>ANTH 355³ or SOCI 355³; ARTH 374³;</p>	<p>15 Chosen from URBS 438³, 450³, 460³,</p>	<p>GEOG 330³, 333³; POLI 349³, 352³;</p>	<p>480³, 481³, 486³, 490³</p>	<p>or other courses approved by the</p>	<p>63 BA Specialization in Urban Planning</p>	<p>appropriate departmental advisor</p>	<p><i>Stage I</i></p>	<p><i>Stage III</i></p>	<p>15 URBS 230³, 240³, 250³, 260³, 293³</p>	<p>9 Chosen from URBS 438³, 450³, 460³,</p>	<p><i>Stage II</i></p>	<p>480³, 481³, 486³, 490³</p>	<p>15 URBS 333⁶, 335³, 360³, 380³</p>	<p>30 Minor in Urban Studies</p>	<p>6 GEOG 330³, 333³</p>	<p>6 URBS 230³, 240³</p>	<p>3 Chosen from ANTH 353³ or SOCI 353³;</p>	<p>24 Chosen from URBS 250³, 260³, 293³,</p>	<p>ANTH 355³ or SOCI 355³; ARTH 374³;</p>	<p>370³, 438³, 450³, 460³, 480³, 481³, 486³,</p>	<p>POLI 349³, 352³</p>	<p>490³; GEOG 220³, 330³, 333³</p>
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Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

URBS 210 *Urban Issues* (3 credits)
This course presents contemporary issues regarding the city and includes a behind-the-scenes look at how planning and development are carried out. The principles and practices of community planning are addressed to enable students to develop critical thinking skills about the metropolitan world in which they live.

city, and regional scales.
NOTE: Students who have received credit for URBS 280 may not take this course for credit.

URBS 230 *Urban Development* (3 credits)
This course examines how and why cities grow and change over time. The relationships between socio-cultural, economic, and physical aspects of urban development are considered at the local,

URBS 240 *Planning* (3 credits)
This course considers the important role planning will have in shaping the world of tomorrow. The methods of planning used in public, parapublic, and private spheres of activity are introduced. The process for implementation of plans and the role of the planning professional are given special emphasis.
NOTE: Students who have received credit for URBS 280 may not take this course for credit.

URBS 250 *Representation Methods in Urban Studies* (3 credits)

This is an introduction to the analytical and practical skills associated with urban field studies. The emphasis is on the use of graphic media for the representation of the social, economic, cultural, and built environments.

NOTE: Students who have received credit for URBS 290 or for this topic under a GEOG 299 number may not take this course for credit.

URBS 260 *Analytical Methods in Urban Studies* (3 credits)

This is an introduction to the analytical and practical skills associated with urban field studies. The emphasis is on the use of data sources and collection techniques along with analytical procedures appropriate to questions of urban planning and public policy.

NOTE: Students who have received credit for URBS 290 or for this topic under a GEOG 299 number may not take this course for credit.

URBS 293 *Law and Regulation in Urban Planning* (3 credits)

Urban planning as governmental activity is defined by planning legislation in Quebec. This course covers the major bodies of legislation on urban plans, local development plans, environmental protection, agricultural land preservation, heritage and economic development. The law is a framework for development control and direct intervention at the municipal, regional and provincial levels. This is an essential course for those intending to practice urban planning at the municipal level and a good background for the Urban Planning laboratories.

NOTE: Students who have received credit for this topic under a URBS 298 or 398 number may not take this course for credit.

URBS 298 *Selected Topics in Urban Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

URBS 333 *Urban Laboratory* (6 credits)

Prerequisite: URBS 250, 260. In this course, an urban problem is studied and solutions simulated. The emphasis is on first-hand knowledge of an area-based problem. Theory and case studies are used to develop appropriate interventions. Plans are prepared and evaluated.

NOTE: Students who have received credit for URBS 334 or for this topic under a GEOG 399 number may not take this course for credit.

URBS 335 *Urban Planning Geomatics* (3 credits)

Prerequisite: URBS 250. Students are introduced to urban spatial analysis, including socio-economic studies, location and market analysis, along with built form studies, three-dimensional projections and network analysis. These urban planning problems are approached using a Geographical

Information System. Lectures are followed by laboratory sessions where students apply analytical concepts to real-life problems.

NOTE: Students who have received credit for URBS 387 or 487 may not take this course for credit.

URBS 360 *Quantitative and Qualitative Research Methods* (3 credits)

Prerequisite: URBS 230, 240. This course introduces students to the most commonly employed methods for undertaking social science research. Students are taught the philosophical considerations underlying particular research traditions and the merits and limitations of distinct types of research methods. Both quantitative and qualitative approaches are introduced.

URBS 370 *Urban Systems* (3 credits)

Prerequisite: URBS 230, 240; or second-year standing in a Geography or Engineering program. The infrastructure of the city is considered from a systems standpoint. The provision of urban services by public and private providers is examined with respect to urban space. Systems encompass institutional, transportation, and underground networks. This course is primarily concerned with the design and management of networks.

URBS 380 *Urban and Regional Economic Development* (3 credits)

Prerequisite: ECON 201; URBS 230, 240. This course draws on the field of economics to examine the process of urbanization. It begins by looking at the conventional tools and models for analysing the nature and structure of cities, and at theories concerning the location of economic activity. It also examines key planning issues associated with the (evolving) role of cities as place of production, distribution, and consumption and considers the role of public policy in addressing these issues. Methods for defining and measuring urban economies for the purpose of analysis are reviewed. *NOTE: Students who have received credit for this topic under a URBS 398 number may not take this course for credit.*

URBS 398 *Selected Topics in Urban Studies* (3 credits)

Special topics in urban studies.

URBS 433 *Advanced Urban Laboratory* (6 credits)

Prerequisite: URBS 333. This is an advanced course in urban design. An overview of current theory and practice is presented. An urban problem is developed and appropriate interventions are considered. These interventions are simulated and the results assessed.

URBS 438 *Urban Ecology* (3 credits)

Prerequisite: GEOG 220, 330; URBS 230; or permission of the Department. The city is viewed as an interdependent and interactive system. The issues surrounding ecological, economic, and socio-cultural sustainability are examined in the context of the development of public policy.

The integration of a spectrum of ecological approaches and standards is a major theme in individual research projects undertaken in the context of this course.

NOTE: Students who have received credit for URBS 488 or GEOG 438 may not take this course for credit.

URBS 450 *Industrial Restructuring*
(3 credits)

Prerequisite: GEOG 318 or URBS 380. In the age of globalization and heightened market uncertainty, firms are assuming new spatial and organizational forms to remain innovative and competitive. This course surveys both theories and policies on these restructuring initiatives in advanced capitalist countries. In addition to assessing the new challenges and opportunities that firms face in the present context, the course examines the changing role of national, state, and local governments in encouraging and shaping new economic development strategies.

NOTE: Students who have received credit for GEOG 450 or for this topic under a URBS 498 or GEOG 498 number may not take this course for credit.

URBS 460 *Reading the Urban Form*
(3 credits)

Prerequisite: 21 credits in Urban Studies. This course focuses on the physical reality of the city, or its urban form, as well as the ongoing process of city building and urban morphogenesis. It introduces tools to properly describe, quantify, and interpret urban form in its spatial and temporal dimensions. It seeks to develop a better understanding of the processes of which the contemporary urban artifact is the result. Along with theoretical presentations, the course makes use of case studies conducted in different urban and cultural contexts, and introduces many examples of practical applications of morphological analysis in urban planning and design.

NOTE: Students who have received credit for this topic under a URBS 498 number may not take this course for credit.

URBS 480 *Impact Assessment* (3 credits)

Prerequisite: URBS 230, 240. The impacts of projects on urban and suburban communities and the environment are studied within the context of environmental protection legislation. The methods of assessment are then applied to specific cases.

URBS 481 *Urban Planning in the Developing World* (3 credits)

Prerequisite: GEOG 330 or URBS 380. This course explores the growth and planning of large metropolitan areas in developing nations, with a focus on East and South East Asia. Issues and problems associated with recent urbanization are examined along with potential solutions offered by urban planning and public policies. The planning roles of institutions including governments, multi-lateral development agencies, and non-governmental organizations are reviewed.

NOTE: Students who have received credit

for this topic under a URBS 398, GEOG 398, URBS 498, or GEOG 498 number may not take this course for credit.

URBS 483 *Directed Studies/Practicum in Urban Planning I* (3 credits)

Prerequisite: Completion of 60 credits; enrolment in the Specialization in Urban Studies. Through a case study or practicum of 120 hours with a private or public institution, or community interest group, students acquire experience in a professional working environment.

URBS 484 *Directed Studies/Practicum in Urban Planning II* (3 credits)

Prerequisite: Completion of 60 credits; enrolment in the Specialization in Urban Studies. Through a case study or practicum of 120 hours with a private or public institution, or community interest group, students acquire experience in a professional working environment.

URBS 486 *Behaviour and the Environment*
(3 credits)

Prerequisite: GEOG 330; URBS 230. Human behaviour is seen both as a determinant and as an outcome of environment. Behavioural topics include perception and attitudes, spatial behaviour, spatial cognition, and time-path analysis. Student projects involve applying the theory to a location study, a facility management study, or other relevant application.

URBS 490 *Public Space and the Public Interest* (3 credits)

Prerequisite: 60 credits and permission of the Department. Public space is understood as physical space, as well as the space of media and communications, which are openly accessible to all members of a community. Changing definitions of public space are examined in the context of societal and cultural change. The roles of agents and stakeholders in changing the definitions of public interest are also examined. Legal and normative frameworks for the definition of space, control, and access are also introduced.

NOTE: Students who have received credit for this topic under a URBS 498 number may not take this course for credit.

URBS 491 *Honours Thesis or Project*
(6 credits)

Prerequisite: Completion of 60 credits; enrolment in the Honours in Urban Studies. Students may undertake independent, supervised research leading to the production of an Honours thesis. They may also undertake a major urban study leading to recommendations for public or private interventions.

NOTE: Students who have received credit for GEOG 491 may not take this course for credit.

URBS 498 *Advanced Topics in Urban Studies* (3 credits)

Special topics in urban studies.

31.160 HISTORY

Faculty	Chair SHANNON MCSHEFFREY, <i>Professor</i>	STEVEN HIGH NORMAN INGRAM ROSEMARIE SCHADE
	<i>Distinguished Professors Emeriti</i> ALAN H. ADAMSON DONALD E. GINTER ROBERT TITTLER	<i>Assistant Professors</i> RACHEL BERGER ANDREW IVASKA WILSON CHACKO JACOB NORA E. JAFFARY ERICA LEHRER MATTHEW PENNEY ELENA RAZLOGOVA ERIC H. REITER ALISON ROWLEY
	<i>Professors</i> FREDERICK A. BODE FRANK R. CHALK LOUISE DANDURAND RONALD E. RUDIN MARTIN SINGER MARY VIPOND	<i>Lecturer</i> ANYA ZILBERSTEIN
	<i>Associate Professors</i> GRAHAM CARR CAROLYN FICK	
Location	Sir George Williams Campus J.W. McConnell Building, Room: LB 1001 514-848-2424 ext. 2435	
Department Objectives	It is the mission of the Department of History not only to train historians but to produce articulate and informed graduates who share its commitment to serving the broader community. The Department therefore encourages strength in both teaching and research, responsiveness to a wide range of intellectual perspectives, and involvement in community affairs.	
Programs	<p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p> <div> <div> 60 BA Honours in History <i>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits. Students must have an overall CGPA of 3.0 and a CGPA of 3.3 in History courses to qualify for entry to Honours. After entry, they must maintain a minimum CGPA of 3.0 as well as a minimum annual GPA of 3.3 within courses in History. The following courses in an approved sequence constitute Honours in History.</i> </div> <div> A. Honours Essay Option 6 European History (HIST 201³, 202³) 6 North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³) 6 Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³) 3 HIST 200- or 300-level courses 12 HIST 300-level courses 3 HIST 304³ (<i>Tutorial Preparation for the Honours Essay</i>) 3 HIST 402³ (<i>The Philosophy and Practice of History</i>) </div> </div> <div> <div> 3 HIST 403³ (<i>Methodology and History</i>) 6 HIST 493⁶ (<i>Honours Essay Tutorial</i>) 12 HIST 400-level seminars </div> <div> B. Seminar Option 6 European History (HIST 201³, 202³) 6 North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³) 6 Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³) 6 HIST 200-level courses 12 HIST 300-level courses 3 HIST 402³ (<i>The Philosophy and Practice of History</i>) 3 HIST 403³ (<i>Methodology and History</i>) 18 HIST 400-level seminars </div> <div> C. Public History with Internship Option 6 European History (HIST 201³, 202³) 6 North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³) 6 Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³) 6 HIST 300-level courses 3 HIST 300-level courses or elective credits from related disciplines 3 HIST 306³ </div> </div>	

- 6 chosen from HIST 379³, 381³, 387³
- 3 HIST 402³ (The Philosophy and Practice of History)
- 3 HIST 403³ (Methodology and History)
- 9 HIST 400-level seminars
- 3 HIST 481³
- 3 HIST 485³
- 3 HIST 486³
- 60 BA Specialization in History**
 - 6 European History (HIST 201³, 202³)
 - 6 North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³)
 - 6 Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³)
 - 6 HIST 200-level courses
 - 27 HIST 300-level courses
 - 3 HIST 312³ (*Historical Approaches and Practices*)
 - 6 Chosen from any HIST 300- or 400-level courses
- 60 BA Joint Specialization in English and History**
 - 6 ENGL 261³, 262³
 - 6 Periods before 1800 (British) from ENGL 302⁶, 304⁶ through 324⁶, 430³ through 441³
 - 6 Canadian, American, and postcolonial from ENGL 360⁶, 363³ through 388³, 448³ through 454³
 - 6 19th century and 20th century (British and European) from ENGL 324³ through 359³, 394³, 442³, 443³, 446³, 447³
- 6 Elective credits from ENGL 224³ through 499³
- 6 HIST 201³, 202³
- 6 Chosen from HIST 203³, 205³, 251³, 253³
- 6 200-300 level non-Western HIST
- 3 300-level pre-1800 Canadian, American, British, or European HIST
- 3 300-level post-1800 Canadian, American, British, or European HIST
- 6 300-400 level History elective credits
- 42 BA Major in History**
 - 6 European History (HIST 201³, 202³)
 - 6 North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³)
 - 6 Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³)
 - 18 Chosen from any HIST 300-level courses
 - 6 Chosen from any HIST 300- or 400-level courses
- 24 Minor in History**
 - 12 HIST 200-level (*Field Surveys*) from among: European History (HIST 201³, 202³) or North American History (from among HIST 203³, 205³, 209³, 210³, 251³, 253³) or Non-Western History (from among HIST 240³, 241³, 261³, 262³, 263³, 264³, 276³, 277³)
 - 12 credits in History with a minimum of six credits at the 300 level

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are generally open only to students who have successfully completed 24 credits. Students who do not have this prerequisite may register with the permission of the Department.
- (2) 400-level courses are generally open to Honours and Specialization students, or students of high academic standing with the permission of the Department.

HIST 201 *Introduction to European History to 1789* (3 credits)
A survey of the history of Europe to the French Revolution, with emphasis on the development of ideas and political institutions.
NOTE: Students who have received credit for HISZ 201 may not take this course for credit.

HIST 202 *Introduction to European History, from 1789 to the Present* (3 credits)
A survey of the history of Europe from the French Revolution to the present, with emphasis on the development of ideas and political institutions.
NOTE: Students who have received credit for HISZ 202 may not take this course for credit.

HIST 203 *History of Canada, Pre-Confederation* (3 credits)
A survey of Canadian history, from settlement to Confederation, emphasizing readings and discussions on selected problems.

HIST 205 *History of Canada, Post-Confederation* (3 credits)
A survey of Canadian history from Confederation to the present, emphasizing readings and discussions on selected problems.
NOTE: Students who have received credit for HISZ 205 may not take this course for credit.

HIST 209 *Quebec to 1867* (3 credits)
An introductory survey of the history of Quebec from its origins as a colony to the creation of modern Canada by the British North American Act of 1867. Particular emphasis is placed on a consideration of those elements of Quebec's past which best assist in the comprehension of the trends prevalent in modern Quebec.

HIST 210 *Quebec since Confederation* (3 credits)
A survey of the history of Quebec from the time of Confederation until the present. While due emphasis is placed on political developments

in the province, the purpose of the course is to acquaint the student with the significant economic and social trends in modern Quebec.

HIST 211 *History of Ireland* (3 credits)

This survey course traces the history of Ireland from the earliest times to the present, with emphasis on the nineteenth and twentieth centuries. Special attention is given to the development of Irish nationalism and relations with Great Britain.

NOTE: Students who have received credit for HIST 348 may not take this course for credit.

HIST 215 *History of Recreation and Leisure in Canada* (3 credits)

A survey of the history of recreation and leisure from the time of European contact with native peoples to the present day. It is placed in the context of Canadian history to examine such phenomena as European and American influences on Canada, effects of urbanization, the roles of women in society, and the commercialization of leisure. Recreation and leisure are understood to include not only sports and games, but such activities as rural bees, education, drinking, gambling, and celebrations. The course also provides an introduction to the historical literature on recreation and leisure, and to the discipline of History.

**HIST 219 (also listed as CLAS 230)
Ancient Near East (3 credits)**

A political, social, economic, and intellectual history of the ancient Near East, this course surveys the period from the origins of civilization in the middle of the fourth millennium to Alexander the Great's conquest of the Persian Empire in the latter part of the fourth century B.C.

NOTE: Students who have received credit for CLAS 230 may not take this course for credit.

**HIST 223 (also listed as CLAS 240)
Greek History from the Bronze Age to Alexander (3 credits)**

This course offers a political, social, economic, and cultural history of Greece from the Minoan-Mycenaean period in the second millennium to the end of Classical Greek civilization in the fourth century B.C., with special emphasis placed upon Athens.

NOTE: Students who have received credit for CLAS 240 may not take this course for credit.

**HIST 225 (also listed as CLAS 242)
History of the Roman Republic (3 credits)**

This course offers a political, social, economic and cultural history of Rome from the city's origins to the establishment of the Roman Empire under the Emperor Augustus.

NOTE: Students who have received credit for CLAS 242 may not take this course for credit.

HIST 235 *The Holocaust* (3 credits)

Beginning with a discussion of Jewish communities in Europe and America before 1933, this course

traces the evolution of anti-Semitism, nationalism, and racism, the rise of Hitler and the Nazi movement, the shaping of Nazi ideology, the growing demonization of the victims of the Holocaust and the genocide against them in their various countries, resistance by the victims, and the parts played by bystanders in the outcome of the Holocaust.

NOTE: Students who have received credit for this topic under a HIST 298 number or RELI 338 may not take this course for credit.

HIST 240 *History of the Middle East to 1500* (3 credits)

This course is a survey of the Middle East from pre-Islamic times to the establishment of Ottoman rule. It traces the development of Islamic society, with particular attention paid to the plurality of cultures that comprised the region. It seeks to juxtapose several historical narratives: the political, the economic, the social, and the cultural in order to provide a broad conceptualization of the pre-modern history of the area. In addition to contemporary scholarship, primary sources in translation are used.

NOTE: Students who have received credit for HIST 370 or for this topic under an HIST 298 number may not take this course for credit.

HIST 241 *History of the Middle East from 1500 to the Present* (3 credits)

This course is a survey of the Middle East from 1500 to the present. It traces the area's journey into modernity, from the overarching paradigm of the multi-ethnic/multilingual Ottoman Empire to that of the mono-ethnic/monolingual modern nation state, and considers both the historical continuities and discontinuities. While this course covers the political history of the region including the experience of British and French colonialism, the rise of nationalist movements, and the Arab-Israeli conflict, it also pays attention to the social, intellectual, and cultural history of the region.

NOTE: Students who have received credit for HIST 370 or 372, or for this topic under an HIST 298 number, may not take this course for credit.

HIST 251 *History of the United States to 1877* (3 credits)

Survey of American history from settlement to 1877. The course deals with the political and economic framework of American history, and with social and cultural trends.

HIST 253 *History of the United States since 1877* (3 credits)

Survey of American history from 1877 to the present. The course deals with the political and economic framework of American history, and with social and cultural trends.

HIST 261 *History of South Asia* (3 credits)

This course is an introduction to the intellectual traditions, social structures, and political institutions of South Asia, with particular attention to developments during the past two centuries.

HIST 262 *History of China* (3 credits)
A survey of China's history from earliest times to the modern era.

HIST 263 *History of Japan* (3 credits)
A survey of Japan's history from earliest times to the modern era.

HIST 264 *History of Africa* (3 credits)
An introductory survey of African history from the fifteenth century to the present. Particular emphasis is placed on pre-colonial Africa and the impact of colonialism on its political and economic patterns.

HIST 276 *History of Latin America:
The Colonial Period* (3 credits)
A survey of Latin America up to the wars of independence from Spain. The main themes examined are: pre-Columbian cultures; the Spanish conquest; patterns of colonial trade and economy; the role of the church; the Bourbon reforms.
NOTE: Students who have received credit for HIST 371 may not take this course for credit.

HIST 277 *History of Latin America:
The Modern Period* (3 credits)
A survey of Latin American society in the nineteenth and twentieth centuries. The principal topics covered are: the social and economic roots of political instability; Mexico under Porfirio Díaz; the Mexican Revolution; Argentina and Brazil under Perón and Vargas; U.S.-Latin American relations; Castro's Cuba; revolution and counter-revolution in contemporary Latin America.
NOTE: Students who have received credit for HIST 374 may not take this course for credit.

HIST 281 *Film in History* (3 credits)
This course examines how selected commercial films interpret historical events or provide insight into the politics, society, and culture of the times in which they were produced. The course is designed to help develop critical skills for the understanding of film in an historical framework.
NOTE: Students who have received credit for HIST 281, or for this topic under an HIST 298 or HIST 298 number, may not take this course for credit.

HIST 283 *The Twentieth Century:
A Global History* (3 credits)
This course introduces students to the history of some of the forces and institutions that have shaped the history of the world in the twentieth century, which has been characterized by widespread warfare, genocides, and massive violations against human rights and the natural environment. It has also been a time of unprecedented prosperity of some groups and parts of the globe, as well as an era of tremendous scientific advances.
NOTE: Students who have received credit for HIST 283 or LOYC 210, or for this topic under an HIST 298 or HIST 298 number, may not take this course for credit.

HIST 298 *Selected Topics in History*
(3 credits)

HIST 299 *Selected Topics in History*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

HIST 300 *British North America* (3 credits)
Prerequisite: See N.B. number (1). This course examines British imperial policy, cross-cultural contact and the development of colonial societies in 18th- and 19th-century North America.

HIST 301 *Late Nineteenth-Century
Canada* (3 credits)
Prerequisite: See N.B. number (1). This course examines the politics of confederation and explores the social, economic, and cultural impact of modernization.

HIST 304 *Tutorial Preparation for the
Honours Essay* (3 credits)
Prerequisite: Approved Honours standing in History, or permission of the Department. This course provides Honours students in History with the opportunity for tutorial reading and research in preparation for the writing of the Honours Essay.

HIST 306 *History and the Public* (3 credits)
Prerequisite: See N.B. number (1). This course is an examination of the practice of history outside the academy and an introduction to the critical analysis of presentations of history in public and popular culture. Topics include archives, corporate and popular history, museums and historic sites, preservation, film and television, theme parks, and anniversary commemorations. There is a special emphasis on public controversies and ethical dilemmas involving historical interpretations.
NOTE: Students who have received credit for HIST 347 may not take this course for credit.

HIST 307 *History of Montreal* (3 credits)
Prerequisite: See N.B. number (1). A study of the origins of the city, its role in the Empire of the St. Lawrence, and its rise to metropolitan dominance in Canada. Special emphasis on economic development and on ethnic groupings.

HIST 310 *Canada in the Early Twentieth
Century, 1896-1939* (3 credits)
Prerequisite: See N.B. number (1). An intensive study of early twentieth-century Canada concentrating on selected themes in economic, political, social, and cultural history.

HIST 311 *Contemporary Canada, 1939 to
the Present* (3 credits)
Prerequisite: See N.B. number (1). An intensive study of Canada since World War II concentrating on selected themes in economic, political, social, and cultural history.

HIST 312 *Historical Approaches and Practices* (3 credits)

Prerequisite: See N.B. number (1); Specialization or Major in History, or permission of the Department. This course addresses a specific historical problem which varies from year to year depending on the instructor. Historiography and methods (including online research) are emphasized.

NOTE: Students who have received credit for HIST 302, 303, 397, 402, or 403 may not take this course for credit.

HIST 313 *Quebec in the Nineteenth Century* (3 credits)

Prerequisite: See N.B. number (1). This course explores the major social, economic, and political issues that arose during the 1800s in the transformation of Quebec from a pre-industrial to an industrial society.

HIST 314 *Quebec in the Twentieth Century* (3 credits)

Prerequisite: See N.B. number (1). This course explores the major social, economic, and political issues of twentieth-century Quebec in the light of the concentration of economic power into relatively few hands early in the century and the declining importance of industrial production since World War II.

HIST 317 *Canada Views the United States* (3 credits)

Prerequisite: See N.B. number (1). An examination of Canadian attitudes to the United States from 1776 to the present, with respect to both specific incidents and general trends. Emphasis is placed on the discussion of primary source material.

HIST 319 *Canadian History in Literature, Art and Film* (3 credits)

Prerequisite: See N.B. number (1). An examination of some major events and themes in Canadian history as seen by writers, artists, and film-makers. Topics will vary from year to year, but will be selected to illustrate how creative works may be combined with more conventional historical sources to enhance our understanding of the past.

HIST 320 *American Culture, 1900–1945* (3 credits)

Prerequisite: See N.B. number (1). This course examines how American cultural expression was affected by the broader historical context of the period. Attention is given to changing aesthetic styles, the impact of technology on production and reception, and the role of culture as a representation of American identity.

NOTE: Students who have received credit for this topic under an HIST 398 number may not take this course for credit.

HIST 321 *American Culture Since 1945* (3 credits)

Prerequisite: See N.B. number (1). This course examines different forms of artistic expression in the U.S. since World War II. Attention is given to changing aesthetic styles and technological developments, as well as to the role of culture as an ex-

pression of American identity at home and abroad.

NOTE: Students who have received credit for this topic under an HIST 398 number may not take this course for credit.

HIST 322 *Buildings, Space, and Society in Early Modern England* (3 credits)

Prerequisite: See N.B. number (1). This architectural and social history course examines the interaction between building types (churches, town halls, cathedrals, country homes, and ordinary housing) and those who used, furnished, and designed them, from the late Middle Ages to the Great Fire and Rebuilding of London.

NOTE: Students who have received credit for this topic under an HIST 398 or ARTH 398 number may not take this course for credit.

HIST 323 *(also listed as CLAS 341) Greek History from Alexander to the Roman Conquest* (3 credits)

Prerequisite: See N.B. number (1). A political, social, economic, and cultural history of the Greek world from Alexander the Great to the Roman conquest of Greece in 146 B.C.

NOTE: Students who have received credit for CLAS 241/HIST 224 or CLAS 341 may not take this course for credit.

HIST 325 *Renaissance Europe* (3 credits)

Prerequisite: See N.B. number (1). This course explores the transition from later Medieval to Renaissance Europe. Special attention is given to the nature, development, and influence of the Italian Renaissance. Attention is also given to social and political issues in early modern Europe.

HIST 326 *Reformation and Counter-Reformation in Early Modern Europe* (3 credits)

Prerequisite: See N.B. number (1). An examination of the European Reformation and Counter-Reformation. Beginning with the late medieval context, the course stresses the significance of the period for the development of Western thought and society.

HIST 327 *(also listed as CLAS 343) History of the Roman Empire* (3 credits)

Prerequisite: See N.B. number (1). This course offers a political, social, economic, and cultural history of the Roman Empire from Augustus to the end of the Roman Empire in the West.

NOTE: Students who have received credit for CLAS 243/HIST 226 or CLAS 343 may not take this course for credit.

HIST 329 *Women in Western History I* (3 credits)

Prerequisite: See N.B. number (1). A survey of the position and roles of women in Western history from antiquity to the French Revolution. Themes analysed in the lectures and in discussions include: women's position in early law; the concept of courtly love; women in the French Revolution; the working woman in pre-industrial Europe.

HIST 330 *Urban Society in Early Modern Europe* (3 credits)

Prerequisite: See N.B. number (1). This course is a survey of urban society from the Renaissance to the eve of Industrialization (c. 1450 – 750), with an emphasis on cities in Western and Central Europe. Particular attention will be paid to civic building and urban planning, population and social structure, political and economic organization, economic life, and civic culture.

HIST 331 *Women in Western History II* (3 credits)

Prerequisite: See N.B. number (1). A survey as above but covering the period from after the French Revolution to modern times. Themes analysed in the lecture and in discussions include: women in post-industrial Europe; the Suffrage Movement; the Feminist Movement in Europe and North America; women during the two World Wars; women in the modern work-force.

HIST 335 *Barbarian Invasions and the Birth of Europe* (3 credits)

Prerequisite: See N.B. number (1). This course examines the arrival and settlement of new populations in the Roman world. It analyses the changes that this event brought in its wake. Classical civilization was disrupted, but there was also a symbiosis of the old and the new, which in time gave rise to Europe in the Middle Ages.

HIST 337 *History of Early Medieval Europe* (3 credits)

Prerequisite: See N.B. number (1). A study of European society during the Early Middle Ages. The course will explore the fall of the Roman Empire in the West, the period of invasions, the conversions to Christianity and the development of the Western Latin Church, the rise of the Carolingians, the Viking raids, and the structures of society and politics.

HIST 338 *History of Later Medieval Europe* (3 credits)

Prerequisite: See N.B. number (1). A study of European society during the Later Middle Ages. The course will explore the ramifications of the revival of urban and commercial life, the development of national monarchies in France, England, and Spain, the varying fortunes of the Holy Roman Empire, the rise and fall of papacy, the problem of dissent in a theoretically unified society, and the effects of economic chaos and epidemics in the age of the Black Death.

HIST 339 *The History of Haiti* (3 credits)

Prerequisite: See N.B. number (1). This course is a study of Haitian history, society, and politics from Haiti's beginnings as a French slave colony in the seventeenth and eighteenth centuries to the end of the Duvalierist regime in the twentieth century. Particular attention is paid to the colonial and revolutionary periods and to their legacies in shaping post-independence Haitian history.
NOTE: Students who have received credit for this topic under an HIST 298 or 398 number may not take this course for credit.

HIST 340 *History of England, c. 1460– 1714* (3 credits)

Prerequisite: See N.B. number (1). This course is a survey of the political, economic, and social development of England from the late Middle Ages through the Stuart Era.
NOTE: Students who have received credit for HIST 342 may not take this course for credit.

HIST 341 *History of Britain Since 1714* (3 credits)

Prerequisite: See N.B. number (1). This course is a survey of the political, economic, and social development of Britain since the Stuart Era.
NOTE: Students who have received credit for HIST 342 may not take this course for credit.

HIST 343 *Art and Society in Renaissance England* (3 credits)

Prerequisite: See N.B. number (1). This interdisciplinary course examines the role of buildings, painting, and sculpture in the social and political world of Renaissance England, both in royal and courtly society and in the lives of common people.
NOTE: Students who have received credit for this topic under an HIST 398 or ARTH 398 number may not take this course for credit.

HIST 346 *Sexuality in History* (3 credits)

Prerequisite: See N.B. number (1). This course looks at the topic of human sexuality taking a broad view, both in time (from the Ancient world to the twentieth century) and space (featuring Asia and Africa as well as the Western world). Rather than surveying the impossibly large canvas of sex throughout world history, this course looks at a number of particular topics (e.g. marital sexuality, same-sex relationships, sexual violence) in different cultures.
NOTE: Students who have received credit for this course under a HIST 398 number may not take this course for credit.

HIST 349 *Family, Sex and Marriage in Pre-Industrial Europe* (3 credits)

Prerequisite: See N.B. number (1). This course deals with the development of marriage and other family relationships in the pre-industrial West, from the beginning of the Middle Ages to about 1700. Topics to be considered include Christian influence on Western ideas about sexuality and marriage; the organization of work within families; how families influenced gender identities; and attitudes towards child-rearing and education.

HIST 350 *Medieval England* (3 credits)

Prerequisite: See N.B. number (1). This course examines the history of England between the Norman Conquest in 1066 and 1500. Topics include the political, social, and cultural impact of the Norman Conquest; Jews and the expulsion of 1290; knights and peasants; the Peasant's Revolt of 1381; crime and the Robin Hood legends; heresy and popular religion; urban culture and guilds.

HIST 351 *German History in the 19th Century* (3 credits)

Prerequisite: See N.B. number (1). A study of the

ideological, cultural, political, and socio-economic development of Germany from the break-up of the Holy Roman Empire to the First World War.
NOTE: Students who have received credit for HIST 345 may not take this course for credit.

HIST 352 *German History in the 20th Century* (3 credits)

Prerequisite: See N.B. number (1). A study of the ideological, cultural, political, and socio-economic development of Germany from the First World War to the present.

NOTE: Students who have received credit for HIST 345 may not take this course for credit.

HIST 353 *Colonial America* (3 credits)

Prerequisite: See N.B. number (1). This course examines the earliest period of American history. It gives special emphasis to the nature of Amerindian society, white-Amerindian contact, and the varieties of colonial settlement patterns.

HIST 354 *Revolutionary America* (3 credits)

Prerequisite: See N.B. number (1). This course examines themes and issues in the revolutionary and early national periods of American history.

HIST 355 *United States in the Nineteenth Century, 1815–1850* (3 credits)

Prerequisite: See N.B. number (1). A study of American political, social, and economic life from the end of the War of 1812 to about 1850 – the intensification of sectionalism. Topics include geographic expansion and the beginnings of industrialization, the characteristics of southern slave society, and the rise of a system of political parties during the age of Jackson.

HIST 356 *United States in the Nineteenth Century: The Era of the Civil War* (3 credits)

Prerequisite: See N.B. number (1). A study of American political, social, and economic life before and after the Civil War, from about 1850 to 1890. Topics include sectionalism and the breakdown of parties during the 1850s, the tasks of Reconstruction after the war, the New South, and the problems of a maturing industrial society.

HIST 357 *Foreign Relations of the United States to 1917* (3 credits)

Prerequisite: See N.B. number (1). An analysis of United States foreign policy from the American Revolution to United States' entry into World War I, emphasizing the domestic debate over foreign policy and economic development, commercial and territorial expansion, and the dynamics of Canadian-American relations.

HIST 358 *Foreign Relations of the United States, 1917 to the Present* (3 credits)

Prerequisite: See N.B. number (1). A historical investigation of United States foreign policy from American intervention in the Russian Revolution to the present, emphasizing the United States' responses to the challenge of revolutions in Asia

and Africa, American conceptions of a new world order, the rise of the multinational corporation and its impact on Canadian-American relations.

HIST 359 *(also listed as SOCI 366) The History and Sociology of Genocide to 1920* (3 credits)

Prerequisite: See N.B. number (1). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that have led to it up to 1920.

NOTE: Students who have received credit for HIST 368 or SOCI 366 or 368 may not take this course for credit.

HIST 360 *(also listed as SOCI 367) The History and Sociology of Genocide from 1920 to the Present* (3 credits)

Prerequisite: See N.B. number (1). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that led to genocide from 1920 to the present.

NOTE: Students who have received credit for HIST 368 or SOCI 367 or 368 may not take this course for credit.

HIST 361 *Africa in the Nineteenth Century* (3 credits)

Prerequisite: See N.B. number (1). The central focus of this course is the European assault on Africa and the unfolding of colonial economy and society. Some emphasis is placed on resistance to colonialism and the origins of nationalism.

HIST 362 *Traditional China* (3 credits)

Prerequisite: See N.B. number (1). An examination of Chinese history from the beginning to the Ch'ing dynasty (c. 1800). Emphasis is placed on China's political, intellectual, and cultural heritage.

HIST 363 *Africa in the Twentieth Century* (3 credits)

Prerequisite: See N.B. number (1). This course deals with questions of nationalism and of the economic and social development of colonial and post-colonial Africa. There is particular focus on liberation and revolutionary movements.

HIST 364 *India/Pakistan: Empire and Resistance, 1750–1950* (3 credits)

Prerequisite: See N.B. number (1). British conquest established nearly two centuries of colonial rule over the world's oldest civilization. This course examines the nature of imperial control, the resistance of traditional leaders, European intellectual imperialism, Indian cultural and religious revivalism, and modern nationalism. Special attention is paid to M.K. Gandhi and Gandhism as well as to Muslim separatism and the Pakistan movement.

HIST 365 *India/Pakistan: Money and Society Since 1800* (3 credits)

Prerequisite: See N.B. number (1). British India was a vital part of a great commercial and indus-

trial empire at the highest stage of capitalism. This course explores the economic and social impact of this period on Indian society up to the present. Imperial capitalism, the Indian entrepreneurial elites, peasants and famine, industrialization, the effects of two world wars, and the challenge of communist and Islamic movements since independence are investigated.

HIST 366 *Nineteenth Century China*
(3 credits)

Prerequisite: See N.B. number (1). An intensive study of Chinese history between 1800 and the beginnings of the Chinese Revolution with emphasis on problems in political, social, and intellectual history.

HIST 367 *Twentieth Century China*
(3 credits)

Prerequisite: See N.B. number (1). An intensive study of Chinese history since 1900 with emphasis on problems in political, social, and intellectual history.

HIST 372 *Latin American History Via the Novel* (3 credits)

Prerequisite: See N.B. number (1). This course examines modern Latin American history and its representation by comparing "fictional" and "factual" depictions of key issues and significant events including economic imperialism, political revolution, and race relations. Texts such as Gabriel García Márquez's literary masterpiece *One Hundred Years of Solitude* are used.

NOTE: Students who have received credit for this topic under an HIST 398 number may not take this course for credit.

HIST 375 *History of the Colonial Caribbean* (3 credits)

Prerequisite: See N.B. number (1). This course covers the period from pre-Columbian contact to the late eighteenth century. Themes include the origins of sugar and slavery; the slave trade; the rise of colonialism; the emergence and maturation of colonial social structure.

NOTE: Students who have received credit for HIST 380 may not take this course for credit.

HIST 376 *The Caribbean and the Atlantic World* (3 credits)

Prerequisite: See N.B. number (1). This course covers the period from the seventeenth century to the end of the nineteenth century. Themes include slavery and the slave community; modes of adaptation and resistance; the politics and economics of abolition; alternative labour forms; the rise of political movements.

NOTE: Students who have received credit for HIST 380 may not take this course for credit.

HIST 377 *History of Russia* (3 credits)

Prerequisite: See N.B. number (1). This course traces the origins of the medieval Russian state from the ninth century to the emergence of the Russian Empire. Emphasis is placed on political, social, and economic problems of the eighteenth and nineteenth centuries. Particular attention is devoted to the Revolutions of 1905 and 1917.

HIST 378 *History of the Soviet Union*
(3 credits)

Prerequisite: See N.B. number (1). This course examines the ideological roots of the Bolshevik Revolution, and traces the main economic, social, and political developments of the Soviet Union. In addition, an analysis of Soviet foreign policy is presented from 1917 to the present.

HIST 379 *History through Visual Media*
(3 credits)

Prerequisite: See N.B. Number (1). Public encounters with history are increasingly the product of the visual media. This course explores the relationship between the public and the past by examining issues in the production, distribution, and reception of history on television and film (both fictional and documentary), as well as through websites and CD-ROMs.

HIST 381 *History and Public Policy*
(3 credits)

Prerequisite: See N.B. Number (1). This course examines the uses of history and the role of the historian in the political, legal, and social arenas, focusing on cases in which the past has underwritten social movements or mediated public controversies. Topics may include professional work with government and non-governmental organizations, expert analyses and testimony before tribunals and truth commissions in human rights cases, Native land claims, reparations, restorative justice, and the repatriation of cultural artifacts.

HIST 382 *Age of Enlightenment 1715–1789* (3 credits)

Prerequisite: See N.B. number (1). An examination of major developments in European society from the death of Louis XIV to the French Revolution. Special attention is given to social and intellectual movements, more particularly to the rise of the bourgeoisie and to the key ideas of the Enlightenment.

HIST 383 *Age of Revolution 1789–1848*
(3 credits)

Prerequisite: See N.B. number (1). A study of the dual Revolution — industrial and political — in England and France, and its initial consequences throughout Europe.

HIST 384 *Age of Industrialization and Nationalism 1848–1914*
(3 credits)

Prerequisite: See N.B. number (1). A study of the transformation of European society, economy, and politics in the years between the upheavals of the mid-nineteenth century and the collapse of the traditional order in World War I.

HIST 385 *Age of Dictators: Europe, 1914–1945* (3 credits)

Prerequisite: See N.B. number (1). A study of the internal development and external relations of the nations of Europe from the Great War to the end of World War II. The course examines this chaotic age primarily through an investigation of

the revolutionary and reactionary upheavals that kept Europe socially, politically, and economically unbalanced for 30 years.

HIST 386 *Contemporary Europe: 1945 to the Present* (3 credits)

Prerequisite: See N.B. number (1). A study of the internal development and external relations of the nations of Europe from the collapse of Nazi Germany to the present. The course concentrates on the divisions between East and West, the economic recovery of Europe and the effects of the energy crisis on social, economic, and political life throughout Europe.

HIST 387 *Selected Topics in Public History* (3 credits)

Prerequisite: See N.B. number (1). Specific topics for this course, and relevant prerequisites, will be stated in the Undergraduate Class Schedule.

HIST 390 *France 1789–1871* (3 credits)

Prerequisite: See N.B. number (1). This course introduces students to the history of France from the Revolution of 1789 to the Franco-Prussian War of 1870. Of central concern is the importance of the revolutionary heritage in nineteenth-century French history, but the course also looks at intellectual, social, and literary developments.

HIST 391 *Independent Study Tutorial in History* (3 credits)

Prerequisite: See N.B. number (1). This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

HIST 392 *France 1871 to the Present* (3 credits)

Prerequisite: See N.B. number (1). This course introduces students to the history of France from the Commune of 1871 to the Fifth Republic. This course deals with such issues as the Dreyfus Affair, the legacy of two World Wars in French history, the Vichy regime, collaboration and French fascism, the May events of 1968, and so forth. Political, social, and intellectual developments will be discussed.

HIST 393 *Vietnam War* (3 credits)

Prerequisite: See N.B. number (1). The protracted Vietnamese conflict in both its French (1940-54) and American (1955-75) phases is analysed using lectures, audio-visual materials, documents, and soldiers' accounts. Vietnam's historical evolution and colonial experience are briefly discussed as essential to understanding the war as a military, political, and cultural struggle.

HIST 396 *The United States Since 1945* (3 credits)

Prerequisite: See N.B. number (1). The immediate historical background of today's America is the subject matter of this course. Major themes include civil rights, the rise of modern feminism, and economic change.

HIST 398 *Selected Topics in History* (3 credits)

HIST 399 *Selected Topics in History* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

HIST 402 *The Philosophy and Practice of History* (3 credits)

Prerequisite: Approved Honours standing in History, or permission of the Department. This course examines problems in the philosophy and practice of history. Particular attention is given to contemporary debates about history as a distinctive mode of understanding and explanation. This course is required of all Honours students.

NOTE: Students who have received credit for HIST 302 or 397 may not take this course for credit.

HIST 403 *Methodology and History* (3 credits)

Prerequisite: Approved Honours standing in History, or permission of the Department. This course examines the variety of sources, methods, and modes of analysis used in the research and writing of history. It addresses both theoretical and practical aspects of method. This course is required of all Honours students.

NOTE: Students who have received credit for HIST 303 or 397 may not take this course for credit.

HIST 412 *Advanced Study in Canadian History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Canada. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 437 *Advanced Study in European History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Europe. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 452 *Advanced Study in American History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of the United States. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 457 *Advanced Study in Latin American and Caribbean History* (3 credits)

Prerequisite: See N.B. number (2). Advanced

seminar in a selected topic in Latin American and/or Caribbean history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 462 *Advanced Study in Asian History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in Asian history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 467 *Advanced Study in Middle Eastern History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in Middle Eastern history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 471 *Advanced Study in African History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Africa. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 475 *Advanced Study in the History of Gender and Sexuality* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of gender and sexuality. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 479 *Advanced Study in Women's History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in women's history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 481 *Advanced Study in Public History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in public history. In addition to weekly discussions of relevant readings, the emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 485 *Public History Workshop* (3 credits)

Prerequisite: See N.B. Number (2); HIST 306.

This course offers students the opportunity to conceive, plan, and carry out a project that presents a historical subject to the public. Students receive training in the public presentation of the past through several media and to a variety of audiences, and are encouraged to involve relevant parties outside the academy in the development of their project.

HIST 486 *Public History Internship* (3 credits)

Prerequisite: See N.B. number (2); HIST 306. This internship in public history is designed to allow students to test and hone their skills in a non-academic situation. Placements will be arranged by the faculty member responsible for the course and may be drawn from various potential employment sectors: public, non-profit, and private. Students, in consultation with the employer and the faculty advisor, are expected to fully participate in the defining of their internships. Students work according to a detailed job description and devote a minimum of 100 hours to the fieldwork component of the internship, keep a logbook describing their work activities, and submit a 20-25 page written report that summarizes and evaluates their work experience, positioning it in relation to broader academic questions in the field of public history. The employers participate in the assessment of the intern's work. Students may find it useful to have second-language proficiency for the purposes of this internship.

HIST 491 *Individual Study Tutorial in History* (3 credits)

Prerequisite: See N.B. number (2). This course permits an individual student to pursue advanced study, with a selected faculty member, in a specialized area not available among scheduled 400-level seminars.

HIST 492 *Individual Study Tutorial in History* (6 credits)

Prerequisite: See N.B. number (2). This course permits an individual student to pursue advanced study, with a selected faculty member, in a specialized area not available among scheduled 400-level seminars.

HIST 493 *Honours Essay Tutorial* (6 credits)

Prerequisite: See N.B. number (2). This course is open only to Honours students in History. The student works with an individual faculty member in a particular area of history. Students are asked to produce a sustained piece of written work, not exceeding 40 pages in length, to be read by their advisor and at least one other member of the Department.

HIST 498 *Advanced Topics in History* (3 credits)

HIST 499 *Advanced Topics in History* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.170 INTERDISCIPLINARY STUDIES

Administrator
JOANNE LOCKE

Program Objectives

The Faculty of Arts and Science *Principles of Education* (§31.001) reinforce the value of broadening skills and experience beyond the boundaries of a single concentration. Interdisciplinary studies involves students in a range of thought, from scientific to humanistic. Courses are designed to illuminate principles, methods, and skills that cross disciplinary boundaries. These programs are intended for students whose interests do not conform to standard academic programs.

Program

INDIVIDUALLY STRUCTURED PROGRAMS — HONOURS OR SPECIALIZATION

Under the direction of the Academic Advisor, Faculty of Arts and Science

Admission

Opportunities are available in some departments and programs to follow an Individually Structured Specialization or Honours program. Students must apply to the Department that seems most relevant to the central aspect of their proposed program. Students in general must have demonstrated in their previous academic endeavours that they are capable of good standing ("B" level), but in exceptional cases a student may be admitted provisionally on the recommendation of the departmental undergraduate coordinator.

Formal entry to the ISP may occur only after completion of preparatory courses such as are required in Mature Entry and Extended Credit programs. Students wishing to follow an Honours program must follow the Faculty procedures and regulations concerning admission to Honours programs. (See Degree Requirements — Honours, §16.2.3 and 31.003.)

Students interested in pursuing an Individually Structured Program should contact the Academic Advisor, Faculty of Arts and Science, at 514-848-2424 ext. 2104.

Academic Regulations

The program will consist of not less than 60 credits. The courses chosen must be based on a departmental or program core, usually the Major, but not less than 24 credits. Students will thus be required to complete necessary prerequisites, and general preparation courses such as Research Methods or Statistics, so that they may later follow a regular departmental program if they so desire.

A Specialization student must maintain an average of "C+" in all Specialization courses for purposes of continuation in the program from year to year, as well as for graduation. The minimum acceptable grade in any single Specialization course is "C-".

The program of study must be worked out at the time of registration into the program. Admission to the program must be finalized before a student registers for the final 60 credits of the 90-credit portion of their degree. To allow for the non-availability of certain courses during certain sessions, allowable substitute courses must be listed in advance. Such substitution provisions will be necessary only in the case of specialized courses that are known not to be available on a session by session basis. The intention of this regulation is to assure that the program does not become an *ad hoc* mixture of courses without clearly rationalized academic coherence.

Students must prepare a careful, not necessarily long, statement of their goals indicating the specific reasons for their program choice. The rationale and the sequence of courses chosen must be approved by the two departmental program coordinators and the Vice-Dean, Student Affairs.

Programs

INTERDISCIPLINARY PROGRAMS — MAJORS, MINORS, AND CERTIFICATES

An Interdisciplinary Major is a program consisting of 42 or more credits comprised of courses from a range of disciplines. Interdisciplinary Minor programs usually consist of 24 or more credits and are to be combined with a department Major, Specialization, or Honours. Interdisciplinary Certificate programs normally consist of 30 credits and can be taken as independent programs. Interdisciplinary Major, Minor, and Certificate programs are listed below.

	Credits	Title	Cal. Sec.
Interdisciplinary	30	Certificate in Arts and Science	31.170
Majors, Minors, and	24	Minor in Canadian Irish Studies	31.170
Certificates	30	Certificate in Canadian Irish Studies	31.170
	27	Minor in Interdisciplinary Studies in Sexuality	31.170

<i>Program</i>	<p>CERTIFICATE IN ARTS AND SCIENCE</p> <p>The Certificate in Arts and Science is intended primarily for part-time students who qualify for admission to undergraduate degree programs, but who, at the time of registration, have not yet determined which program would best serve their interests. In particular, it is designed to meet the needs of Mature students who are unwilling or unable to make the long-term commitment involved in a regular or extended degree program. Students who have completed a university degree do not normally qualify for admission into the Certificate in Arts and Science.</p> <p>The Certificate requires successful completion of 30 credits. At least 24 of these credits must be chosen from courses offered by not more than three departments in the Faculty of Arts and Science. Credits earned in the Certificate may not be counted towards the additional credits required in extended programs. Students may transfer into the Certificate program up to twelve credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program. The Certificate program in Arts and Science was first offered in the session commencing September 1978. Students who are admitted to the Certificate in Arts and Science, and who wish to continue in a degree program should apply for admission to their program within the first 30 credits.</p>
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<i>Programs</i>	<p>CANADIAN IRISH STUDIES</p> <p>The Centre for Canadian Irish Studies offers a 24-credit Minor and a 30-credit Certificate in Canadian Irish Studies. The purpose of the programs is to allow students to study the history and culture of Ireland and the Irish in Canada and Quebec, and to increase awareness of the significant contribution the Irish have made to the development of both Quebec and Canada. The Minor is intended for current students and must be combined with a Major, Specialization, or Honours program from another department. The Certificate is directed to members of the larger community and may be taken as a stand-alone program. Students interested in this program should contact the Centre for Canadian Irish Studies at 514-848-8711.</p> <p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p> <table> <tr> <td>24 Minor in Canadian Irish Studies</td><td>30 Certificate in Canadian Irish Studies</td></tr> <tr> <td>12 ENGL 357³; GEOG 342³; HIST 211³; IRST 203³</td><td>15 ENGL 357³; GEOG 342³; HIST 211³; IRST 203³, 303³</td></tr> <tr> <td>12 Chosen from ECON 379³; ENGL 355³, 359C³, 359E³; GEOG 398D³, 398N³; HIST 298I³, 412F³; INTE/ARTH 398J³; IRST 290³, 303³; MIRI 290⁶; THEO 208³; WSDB 335³; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies</td><td>15 Chosen from ECON 379³; ENGL 355³, 359C³, 359E³; GEOG 398D³, 398N³; HIST 298I³, 412F³; INTE/ARTH 398J³; IRST 290³; MIRI 290⁶; THEO 208³; WSDB 335³; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies</td></tr> </table> <p><i>NOTE: For details on the course descriptions in the programs listed above, please refer to the individual departmental course listings.</i></p>	24 Minor in Canadian Irish Studies	30 Certificate in Canadian Irish Studies	12 ENGL 357 ³ ; GEOG 342 ³ ; HIST 211 ³ ; IRST 203 ³	15 ENGL 357 ³ ; GEOG 342 ³ ; HIST 211 ³ ; IRST 203 ³ , 303 ³	12 Chosen from ECON 379 ³ ; ENGL 355 ³ , 359C ³ , 359E ³ ; GEOG 398D ³ , 398N ³ ; HIST 298I ³ , 412F ³ ; INTE/ARTH 398J ³ ; IRST 290 ³ , 303 ³ ; MIRI 290 ⁶ ; THEO 208 ³ ; WSDB 335 ³ ; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies	15 Chosen from ECON 379 ³ ; ENGL 355 ³ , 359C ³ , 359E ³ ; GEOG 398D ³ , 398N ³ ; HIST 298I ³ , 412F ³ ; INTE/ARTH 398J ³ ; IRST 290 ³ ; MIRI 290 ⁶ ; THEO 208 ³ ; WSDB 335 ³ ; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies
24 Minor in Canadian Irish Studies	30 Certificate in Canadian Irish Studies						
12 ENGL 357 ³ ; GEOG 342 ³ ; HIST 211 ³ ; IRST 203 ³	15 ENGL 357 ³ ; GEOG 342 ³ ; HIST 211 ³ ; IRST 203 ³ , 303 ³						
12 Chosen from ECON 379 ³ ; ENGL 355 ³ , 359C ³ , 359E ³ ; GEOG 398D ³ , 398N ³ ; HIST 298I ³ , 412F ³ ; INTE/ARTH 398J ³ ; IRST 290 ³ , 303 ³ ; MIRI 290 ⁶ ; THEO 208 ³ ; WSDB 335 ³ ; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies	15 Chosen from ECON 379 ³ ; ENGL 355 ³ , 359C ³ , 359E ³ ; GEOG 398D ³ , 398N ³ ; HIST 298I ³ , 412F ³ ; INTE/ARTH 398J ³ ; IRST 290 ³ ; MIRI 290 ⁶ ; THEO 208 ³ ; WSDB 335 ³ ; or other courses chosen in consultation with an advisor from the Centre for Canadian Irish Studies						

<i>Courses</i>	<p>IRST 203 Introduction to Canadian Irish Studies (3 credits)</p> <p>This course is a multidisciplinary introduction to the field of Canadian Irish studies, a discipline that embraces a broad range of historical and contemporary issues as they have manifested themselves on the island of Ireland and in Canada. In particular, questions related to individual identity in the context of history, language, culture, landscape, and religion are explored and debated.</p> <p><i>NOTE: Students who have received credit for this topic under an INTE 298 number may not take this course for credit.</i></p> <p>IRST 290 Field Studies in Ireland (3 credits)</p> <p>Prerequisite: Permission of the Centre. Prerequisites are determined on an individual basis by the Centre. This course is designed to allow students to conduct focused study of a given subject (e.g. literature, history, language, music,</p> <p>film) in an Irish context. The experience in Ireland may be in the context of a structured school environment or may take the form of a more independent exploration. Based upon preparatory readings and assignments done at Concordia, students enrich their learning experience in Ireland, followed by assignments completed upon their return to Concordia. All course content and requirements are established in consultation with the Centre.</p> <p><i>NOTE: Students may take this course two times for credit provided the subject matter is different.</i></p> <p>IRST 298 Selected Topics in Canadian Irish Studies (3 credits)</p> <p>IRST 299 Selected Topics in Canadian Irish Studies (6 credits)</p> <p>Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.</p>
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IRST 303 *Irish Studies: Dispersal and Settlement* (3 credits)
This interdisciplinary course examines the Irish experience of emigration, exile, resettlement, and diaspora, emphasizing the Great Famine and its legacy in shaping Irish communities in Canada and elsewhere. It highlights debates about the impact of the Famine, the significance of Grosse-Île in Irish and Irish-Canadian cultural memory, the relationship between Irish emigration and nationalism, immigrant women and how Irish communities adopted a self-image of exile.

IRST 398 *Special Topics in Canadian Irish Studies* (3 credits)

IRST 399 *Special Topics in Canadian Irish Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

IRST 498 *Advanced Topics in Canadian Irish Studies* (3 credits)

IRST 499 *Advanced Topics in Canadian Irish Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Program

INTERDISCIPLINARY STUDIES IN SEXUALITY

The Minor in Interdisciplinary Studies in Sexuality, offered jointly by the Faculty of Fine Arts and the Faculty of Arts and Science, draws its curriculum from a variety of disciplines. Its purpose is to investigate empirical, theoretical, and creative aspects of sexuality. Students interested in this program should contact Dr. Viviane Namaste, Acting Principal, Simone de Beauvoir Institute, Faculty of Arts and Science, 514-848-2424 ext. 2371.

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

27 Minor in Interdisciplinary Studies in Sexuality

- 12 Chosen from INTE 270/FFAR 290⁶, INTE 275/FASS 291³, INTE 392/FASS 392³; SOCI 375/ANTH 375^{3*}; FMST 392³
- 9 Elective credits on sexuality and sexual orientation chosen in consultation with the program coordinator from periodic topics courses and other suitable courses identified in a given year, and from the following regular courses:
AHSC 312³; ENGL 393³; FMST 391³; RELI 380³; WSDB 383³.

- 6 Chosen each year from courses in gender and women's studies in consultation with the program coordinator from a list of available offerings within departments of the Faculties of Arts and Science and Fine Arts.
**Prerequisites waived for students having completed six credits in the Minor in Interdisciplinary Studies in Sexuality.*

NOTE: For details on the course descriptions in the program listed above, please refer to the individual departmental course listings, and the INTE courses listed below.

Elective Groups

ELECTIVE GROUPS

Elective Groups (formerly referred to as Clusters) are elective courses (15 to 18 credits) on a theme. Each group provides multidisciplinary and interdisciplinary course content.

Credits	Elective Groups
18	Canadian Studies (<i>Admission suspended for 2008-09</i>)
18	Health and Lifestyle
18	Hellenic Studies
18	Introduction to Life Sciences
15	Irish Studies (<i>See Canadian Irish Studies</i>)
18	Legal Studies
15	Marketing
18	Native Studies
18	Quebec Studies

18	Spanish America
18	Preparing for Success in the Workplace: Skills, Issues and Practices
18	The Planet Earth: Studies in the Environment
15	Understanding Western Myth
15	The Basics of Business

Course information on these Elective Groups is listed in the Undergraduate Class Schedule and on the University website at www.concordia.ca.

Interdisciplinary Courses

INTERDISCIPLINARY COURSES

Many courses which have an interdisciplinary approach and are recommended and/or required by a variety of departments are listed in this section.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

INTE 270 (also listed as FFAR 290) HIV/AIDS: Cultural, Social and Scientific Aspects of the Pandemic (6 credits)

An interdisciplinary survey of the major issues and challenges of the HIV pandemic. Such topics as the biology of the virus, therapeutic, clinical and epidemiological research developments, the social costs of sexual taboos and discrimination, and media and artistic representation by and of people with HIV are presented by faculty and visiting community experts. The epidemics in the Western hemisphere, Africa, Asia, and other regions are addressed. Learning is based on lectures, weekly tutorials, and community involvement.

NOTE: Students who have received credit for FFAR 290, FFAR 390, INTE 390, or for this topic under an FFAR 398 or INTE 398 number, may not take this course for credit.

INTE 275 (also listed as FASS 291) Introduction to Sexuality Research (3 credits)

An interdisciplinary survey of approaches to research in sexuality within the humanities, the arts, and the social sciences. Basic concepts of sexual identity, values, conduct, representation, and politics are addressed through such topical concerns as pornography and censorship, and through the perennial dialogue between biological and socio-cultural models of sexuality. The relation between theories and research methods is discussed in the context of classical and current research and creative activity. The syllabus reflects the varying specializations of the instructors from year to year.

NOTE: Students who have received credit for FASS 291, FASS 391, or INTE 391 may not take this course for credit.

INTE 290 Introduction to Computer Usage and Document Design (3 credits)

This course teaches students how to use the latest Windows operating system in combination with Microsoft Office applications and how to use these tools to produce attractive, efficient, and informative documents. Basic notions of word

processing, document design, data organization, and presentation are explored. The course is based on a step-by-step learning process, whereby students acquire the tools that they need to accomplish a specific task. A minimum of 40 hours of laboratory work is required.

NOTE: Computer Science students, or students enrolled in Mathematics and Statistics programs, may not take this course for credit.

INTE 291 Web Document Development (3 credits)

Prerequisite: INTE 290 or equivalent. This course introduces students to Web document development in a networked PC environment. Students learn how to create Web documents, scripts, and animation using a variety of Web development, scripting, and animation tools. The course format is a mix of lectures, hands-on experience in the computer laboratory, and text. A minimum of 40 hours of laboratory work is required.

INTE 293 Computer Application Development (3 credits)

This course introduces students to the use of contemporary computer tools in scientific applications. It is designed for students with some familiarity with the fundamentals of computing who wish to use computers as tools for research within science disciplines. The format is largely self-instructional, using computer-based tutorial packages. A minimum of 40 hours of laboratory work is required.

INTE 296 Discover Statistics (3 credits)

This course introduces students to the basics of statistics and is aimed at mastering the elementary analytical concepts of the subject. Topics include descriptive statistics, correlation and regression analysis, experimental analysis (test procedures), probability (distribution and theory), hypothesis testing, and analysis of variance.

NOTE: Students who have received credit for this topic under an INTE 298 number may not take this course for credit.

NOTE: See §200.7 for equivalent statistics courses.

INTE 298 *Special Topics* (3 credits)

INTE 299 *Special Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

INTE 392 *(also listed as FASS 392)*
Queer Theory (3 credits)

Prerequisite: 30 credits. An interdisciplinary survey of the basic post-1970 theories of sexual minorities and diversity, in their historical and cultural contexts. Authors from Michel Foucault to Eve Kosofsky Sedgwick are introduced, as well as the work of artists and performers from Derek Jarman to k.d. lang. The syllabus reflects the varying specializations of the instructors from year to year.

NOTE: Students who have received credit for FASS 392 may not take this course for credit.

INTE 398 *Special Topics* (3 credits)

INTE 399 *Special Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

INTE 498 *Special Topics* (3 credits)

INTE 499 *Special Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.180 JOURNALISM

Faculty	<p><i>Director</i> MIKE GASHER, Associate Professor</p> <p><i>Diploma Program Director</i> PETER DOWNIE, Senior Lecturer</p> <p><i>Faculty</i> LINDA KAY, Associate Professor ROSS PERIGOE, Associate Professor</p> <p>BRIAN GABRIAL, Assistant Professor JAMES McLEAN, Assistant Professor DAVE SECKO, Assistant Professor</p> <p><i>Lecturers</i> MARK BOURRIE CHRISTINE CROWTHER</p>		
Location	<p><i>Loyola Campus</i> Communication Studies and Journalism Building, Room: CJ 3.230 514-848-2424 ext. 2465 E-Mail: sandy@alcor.concordia.ca</p>		
Department Objectives	<p>Journalism studies are designed to help students become the intelligent and versatile reporters and writers upon which society depends for the exercise of its democratic functions. Above all, journalism is an intellectual activity with rigorous standards for gathering, processing, and disseminating information. To help students become knowledgeable and versatile reporters and writers, the Department of Journalism offers a professional education that combines theory and practice. Writing and production workshops emphasize the practical, simulating as much as possible the assignments of working journalists. Newsroom standards are universally applied. Complementing these courses are lectures and seminars which analyse the social and political contexts in which journalism is practised.</p>		
Admission and Graduation Requirements	<p>Enrolment in the workshops in the Department of Journalism is limited and depends on the applicants' successful completion of the admission procedures outlined in the following paragraphs. All applicants should apply through the Concordia University Applications Centre. Applicants must also contact the Department by March 1 to make an appointment for a test of English proficiency. A student must achieve a final mark of "C" or better in the reporting workshops in order to proceed to the next level.</p> <p>To graduate with a Major or Specialization in Journalism, a student must demonstrate a working knowledge of French. Tests of oral proficiency in French are administered by the Département d'études françaises on behalf of the Department of Journalism, which is responsible for the final evaluation of each student's competence.</p>		
Programs	<p><i>Students are responsible for satisfying their particular degree requirements.</i> <i>The superscript indicates credit value.</i> <i>These programs are designed to prepare graduates for the English-language media.</i> <i>A limited number of students who have been admitted to the Major in Journalism program may be allowed to register in the Science College, with a view to combining a basic understanding of science with a training in journalism.</i></p> <table> <tr> <td data-bbox="500 1457 917 1856"> <p>60 BA Specialization in Journalism <i>NOTE: This Specialization allows students the fullest range of journalism courses and is intended to prepare students to work in all forms of modern journalism.</i></p> <p><i>Stage I</i></p> <p>15 JOUR 200³, 201⁶, 203³, 205³</p> <p><i>Stage II</i></p> <p>15 JOUR 302³, 303³, 330³, 336³, 339³</p> <p>3 JOUR 309³ or 318³</p> <p>3 JOUR 316³ or 317³</p> <p>3 JOUR 332³ or 463³</p> <p><i>Stage III</i></p> <p>3 JOUR 400³ or 402³</p> <p>12 JOUR 404³, 421⁶, 444³</p> </td><td data-bbox="971 1457 1367 1856"> <p>6 Chosen from JOUR 320³, 343³, 428³, 432³, 442³, 460³, 466³</p> <p>60 BA Specialization in Communication and Journalism <i>NOTE: Students must meet the admission requirements of both the Departments of Communication Studies and Journalism.</i></p> <p><i>Courses in Communication Studies (30 credits)</i></p> <p>9 COMS 210³, 220³, 240³</p> <p>6 Chosen from COMS 352³, 357³, 367³, 368³, 369³, 372³</p> <p>15 Chosen from the list of Studies Courses, with at least nine credits at the 400 level</p> </td></tr> </table>	<p>60 BA Specialization in Journalism <i>NOTE: This Specialization allows students the fullest range of journalism courses and is intended to prepare students to work in all forms of modern journalism.</i></p> <p><i>Stage I</i></p> <p>15 JOUR 200³, 201⁶, 203³, 205³</p> <p><i>Stage II</i></p> <p>15 JOUR 302³, 303³, 330³, 336³, 339³</p> <p>3 JOUR 309³ or 318³</p> <p>3 JOUR 316³ or 317³</p> <p>3 JOUR 332³ or 463³</p> <p><i>Stage III</i></p> <p>3 JOUR 400³ or 402³</p> <p>12 JOUR 404³, 421⁶, 444³</p>	<p>6 Chosen from JOUR 320³, 343³, 428³, 432³, 442³, 460³, 466³</p> <p>60 BA Specialization in Communication and Journalism <i>NOTE: Students must meet the admission requirements of both the Departments of Communication Studies and Journalism.</i></p> <p><i>Courses in Communication Studies (30 credits)</i></p> <p>9 COMS 210³, 220³, 240³</p> <p>6 Chosen from COMS 352³, 357³, 367³, 368³, 369³, 372³</p> <p>15 Chosen from the list of Studies Courses, with at least nine credits at the 400 level</p>
<p>60 BA Specialization in Journalism <i>NOTE: This Specialization allows students the fullest range of journalism courses and is intended to prepare students to work in all forms of modern journalism.</i></p> <p><i>Stage I</i></p> <p>15 JOUR 200³, 201⁶, 203³, 205³</p> <p><i>Stage II</i></p> <p>15 JOUR 302³, 303³, 330³, 336³, 339³</p> <p>3 JOUR 309³ or 318³</p> <p>3 JOUR 316³ or 317³</p> <p>3 JOUR 332³ or 463³</p> <p><i>Stage III</i></p> <p>3 JOUR 400³ or 402³</p> <p>12 JOUR 404³, 421⁶, 444³</p>	<p>6 Chosen from JOUR 320³, 343³, 428³, 432³, 442³, 460³, 466³</p> <p>60 BA Specialization in Communication and Journalism <i>NOTE: Students must meet the admission requirements of both the Departments of Communication Studies and Journalism.</i></p> <p><i>Courses in Communication Studies (30 credits)</i></p> <p>9 COMS 210³, 220³, 240³</p> <p>6 Chosen from COMS 352³, 357³, 367³, 368³, 369³, 372³</p> <p>15 Chosen from the list of Studies Courses, with at least nine credits at the 400 level</p>		

<i>Courses in Journalism (30 credits)</i>		<i>Stage III</i>	
21	JOUR 200 ³ , 201 ⁶ , 205 ³ , 316 ³ , 319 ³ , 444 ³	3	JOUR 400 ³ or 402 ³
3	JOUR 210 ³ or 215 ³	3	JOUR 444 ³
6	Chosen from JOUR 320 ³ , 332 ³ , 442 ³ , 463 ³	6	Chosen from JOUR 320 ³ , 404 ³ , 428 ³ , 442 ³ , 460 ³ , 463 ³ , 466 ³
42 BA Major in Journalism		<i>Broadcast Option</i>	
<i>Stage I</i>		<i>Stage II</i>	
15	JOUR 200 ³ , 201 ⁶ , 203 ³ , 205 ³	15	JOUR 317 ³ , 330 ³ , 332 ³ , 336 ³ , 339 ³
<i>Print Option</i>		<i>Stage III</i>	
<i>Stage II</i>		9	JOUR 421 ⁶ , 444 ³
12	JOUR 302 ³ , 303 ³ , 309 ³ , 316 ³	3	Chosen from JOUR 320 ³ , 343 ³ , 428 ³ , 432 ³ , 442 ³ , 466 ³
3	JOUR 318 ³ or 319 ³		

Courses

Written work in writing and reporting workshop courses is in English; please consult the Department.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

JOUR 200 *Introduction to Broadcasting* (3 credits)

Prerequisite: Enrolment in a Journalism program. The aim of this orientation course is to instill a fundamental professional attitude before students enter into any production activity, while developing **specific tactical broadcast methods that will be required in subsequent workshop courses.** The course strategically explains the production methodology in various types of broadcast news-rooms and introduces students to the historical development of radio and television in Canada.

JOUR 201 *Writing and Reporting I* (6 credits)

Prerequisite: Enrolment in a Journalism program. This course gives training in basic reporting and news writing. Students practise writing news and receive out-of-classroom assignments.

JOUR 202 *Introduction to Computer Applications in Journalism* (3 credits)

Prerequisite: JOUR 201 previously or concurrently. Students are introduced to the basics of computer-assisted reporting and desktop publishing.

JOUR 203 *Introduction to Radio* (3 credits)

Prerequisite: JOUR 200. This course teaches students how to identify a radio news story, how to use recording technology, how to become **proficient in the fundamentals of radio editing**, and how to research, develop, and write a story for radio.

NOTE: Students who have received credit for JOUR 306 may not take this course for credit.

JOUR 205 *History of Journalism* (3 credits)

This course traces the history of journalism from Gutenberg's invention of the press to the modern media conglomerates. Concentrating on developments in Canada, Britain, and America, it focuses on such interrelated issues as freedom of the press, government's relationship with the press, censorship and private control and concentration of the media.

JOUR 210 *The Media in Quebec* (3 credits)

This course studies the special characteristics of Quebec media, focusing particularly on the historical development of Quebec journalism and the part it has played in the shaping of modern Quebec. Particular attention is given to the influence of journalists in cultural and political affairs. The recent increasing concentration of media ownership is examined. Much of the reading material is in French.

NOTE: Students who have received credit for JOUR 305 may not take this course for credit.

JOUR 215 *Contemporary News Media* (3 credits)

This course introduces students to the increasingly complex structures of modern media. It examines the organizations, practices, and problems of news media, focusing on key functions in their day-to-day activities. In any given year, it may explore in detail a particular development or problem in the news media.

JOUR 298 *Special Topics in Journalism* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

JOUR 302 *Reporting Methods* (3 credits)

Prerequisite: JOUR 201. This course builds solid foundations for a variety of journalistic assignments: feature writing, background and in-depth reporting, analyses, and investigative reporting. It is designed to help students understand and master a variety of information-gathering techniques, and overcome some of the hurdles confronting the contemporary journalist. It covers: information sources, interpretation and use of documents, access to information, and reporting and interviewing techniques to supplement official and conventional information sources.

JOUR 303 *Feature Writing* (3 credits)

Prerequisite: JOUR 201. This course is designed to help students develop and enhance their writing abilities, preparing for the broadest range of jour-

nalistic feature writing, from brief colour stories and profiles to in-depth articles. It consolidates interviewing techniques and introduces a variety of writing approaches. Students build the foundations for a full spectrum of print-oriented writing assignments, preparing for advanced reporting work and the demands of specialized journalism.

JOUR 309 Principles of Editing (3 credits)

Prerequisite: JOUR 201. Through lectures and workshops, students are introduced to the art of story editing. While the material used is designed primarily for print production, the techniques, and particularly the intellectual processes employed, are applicable to all media.

NOTE: Students who have received credit for JOUR 410 may not take this course for credit.

JOUR 316 Law and Ethics for Print Journalists (3 credits)

Prerequisite: JOUR 201. This course looks at issues and practices in print journalism within the contexts of law and ethics. It aims to provide students with an understanding of professional standards and legal norms, together with a strong foundation in ethical reasoning.

NOTE: Students who have received credit for JOUR 310, 315 or COMS 453 may not take this course for credit.

JOUR 317 Broadcast Law and Ethics (3 credits)

Prerequisite: JOUR 200. This course considers the legal and ethical challenges facing contemporary broadcast journalists. A particular emphasis is placed on Canadian broadcast law and how it differs from broadcast law around the world and from print law.

NOTE: Students who have received credit for JOUR 310, 315 or COMS 453 may not take this course for credit.

JOUR 318 Publication Workshop (3 credits)

Prerequisite: JOUR 201. Students experiment, under supervision, with concepts and practical applications of computerized print media layout and design at an advanced level while creating publications in a variety of formats.

NOTE: Students who have received credit for JOUR 408 or for this topic under a JOUR 498 number may not take this course for credit.

JOUR 319 Computer-Assisted Reporting (3 credits)

Prerequisite: JOUR 201, or permission of the Department. Students develop advanced skills in computer-assisted reporting, working with a variety of software and data storage systems to research, analyse and publish their work. The goal is to equip students with the skills necessary to be successful journalists in the information age.

NOTE: Students who have received credit for JOUR 419 or for this topic under a JOUR 498 number may not take this course for credit.

JOUR 320 Gender and Journalism (3 credits)

This course focuses on gender issues in journal-

ism, paying attention to their development from contemporary and historical perspectives. The course also explores how these issues affect both the journalist in the workplace and journalism's role in a democratic society.

NOTE: Students who have received credit for this topic under a JOUR 398 number may not take this course for credit.

JOUR 330 Advanced Radio Journalism (3 credits)

Prerequisite: JOUR 203 and permission of the Department. This workshop concentrates on the production of daily news for live broadcast. Students function as reporters, assignment editors, and news readers. Critiques are given by the instructor and invited radio journalists.

NOTE: Students who have received credit for JOUR 430 may not take this course for credit.

JOUR 332 Turning Points in Broadcast History (3 credits)

Prerequisite: JOUR 200. This course provides an overview of the history of broadcasting as seen and heard in seminal broadcasts drawn from newsreels, radio and television news and current-affairs programs, and documentary films. The material is analysed and discussed in terms of the historical context and how new technology and/or innovative journalists have advanced the art and science of broadcasting.

JOUR 336 Introduction to Television (3 credits)

Prerequisite: JOUR 203. This is a workshop course in the fundamentals of videography, where students learn the techniques of video recording and editing, as well as how to write effectively to complement images, and how to organize and perform field and post-production functions.

NOTE: Students who have received credit for JOUR 415 may not take this course for credit.

JOUR 339 Intermediate Television Journalism (3 credits)

Prerequisite: JOUR 336. This course is a continuation of JOUR 336. Students learn the various production methodologies used in putting together a weekly television news and current-affairs program, and work on perfecting editing skills using more sophisticated TV-editing software.

JOUR 343 Broadcast Public Affairs (3 credits)

Prerequisite: JOUR 201, or permission of the Department. This course focuses on the principles, practices, and issues in Canadian and American public affairs radio and television, with a comparative look at broadcasting around the world.

NOTE: Students who have received credit for COMS 340, 342 or 343 may not take this course for credit.

JOUR 398 Special Topics in Journalism (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

JOUR 400 *Advanced Reporting* (3 credits)
Prerequisite: JOUR 302 or 303. Students are introduced to several areas of specialist reporting including business and editorial writing, and to a variety of journalistic treatments.
NOTE: Students who have received credit for JOUR 401 may not take this course for credit.

JOUR 402 *Specialist Reporting* (3 credits)
Prerequisite: JOUR 302 or 303. Students cover a beat in the field of their choice for several weeks, producing news, features, and background stories. A term-end major background story is also produced. There are seminars and discussions, with leaders from the media on the specifics of beat coverage and on general media topics, such as trade unionism, ethics, and journalistic responsibility.

JOUR 404 *Magazine Writing* (3 credits)
Prerequisite: JOUR 303. This is a workshop for students who intend to write in the burgeoning magazine field. Students develop and apply the techniques used in a variety of magazine formats, from the highly specialized to the general: news magazines, special interest, topical or industrial publications, expansive feature formats, and internal corporate publications. It is of particular interest to students wishing a freelance career.

JOUR 421 *Advanced Television Journalism* (6 credits)
Prerequisite: JOUR 339. This seminar/workshop course is an intensive and comprehensive study of television news and current affairs production. Students produce a weekly television program and learn to work as part of a news team by performing all the functions behind and in front of the camera.

JOUR 428 *On-line Magazine* (3 credits)
Prerequisite: JOUR 318 or 319. This course introduces students to the theory and practice of on-line publication methods. Students design, lay out, and edit an on-line publication.
NOTE: Students who have received credit for this topic under a 498 number may not take this course for credit.

JOUR 432 *Broadcast Documentary Production* (3 credits)
Prerequisite: JOUR 330 or 339. This course is for students who wish to work creatively on longer form radio and television productions. Through assignments and class discussions, students learn the fundamentals of documentary production, including story development, researching, interviewing, editing, and production assembly.

JOUR 440 *Seminar in Modern Journalism* (3 credits)
Prerequisite: Third-year standing in a Journalism program. This course takes an intensive look at selected aspects of modern journalistic practice. The focus for this course may change from year to year.

JOUR 442 *International Journalism* (3 credits)
Prerequisite: Sixty credits or permission of the Department. This course examines cross-cultural journalism practices as they pertain to both international news coverage and local reportage in a multicultural setting. The course asks students to apply basic theoretical concepts to concrete case studies of the news.

JOUR 444 *Critical Approaches to Journalism* (3 credits)
Prerequisite: Thirty credits in Journalism. This course situates the practice of journalism in its social, political, and economic contexts. Students are asked to consider journalism as a practice of representation, signification, and ethnography, with an emphasis on media accountability. Case studies pertaining to such topics as democratic ideals of the press, the economics of news production, globalization, and depictions of race and gender are used to ground the course material.

JOUR 450 *Independent Study* (3 credits)
Prerequisite: Enrolment in a Journalism program. Students who have demonstrated ability may, near the end of their program, be allowed to undertake independent study, in either research or production, in an area of special interest in Journalism. The study or project is done in close collaboration with one or more members of the faculty.

JOUR 451 *Independent Study* (3 credits)
Prerequisite: Enrolment in a Journalism program. Students who have received credit for JOUR 450 may register for JOUR 451.

JOUR 460 *Technical Writing and Business Communication* (3 credits)
Prerequisite: Sixty credits or permission of the Department. This is a writing workshop in which students learn a range of writing styles and modes used by freelance journalists in technical writing and business communication. Among other assignments, students learn how to build up a press kit, including press releases, back-grounders, and fact sheets.
NOTE: Students who have received credit for this topic under a JOUR 498 number may not take this course for credit.

JOUR 463 *Literary Journalism* (3 credits)
Prerequisite: Sixty credits or permission of the Department. This course looks at the meeting places where journalism and literature converge by analysing the writings of representative Canadian, British, and American journalists through the years. Students learn to appreciate how literary styles and conventions contribute to, and enhance, journalistic practices.
NOTE: Students who have received credit for this topic under a JOUR 398 number may not take this course for credit.

JOUR 466 *Photojournalism* (3 credits)
Prerequisite: Fifteen credits in Journalism. This is a workshop course in the fundamentals of photojournalism, where students learn how to apply the theory and aesthetics of news photography to telling stories through pictures. Using digital cameras and technology, students perform a variety of exercises and assignments to help them master the techniques used in planning, taking, and laying out news photographs. *NOTE: Students who have received credit for this topic under a JOUR 398 number may not take this course for credit.*

JOUR 498 *Advanced Special Topics in Journalism* (3 credits)
Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.200

MATHEMATICS AND STATISTICS

<i>Faculty</i>	<p><i>Chair</i> YOGENDRA P. CHAUBEY, <i>Professor</i></p> <p><i>Professors</i> SYED T. ALI ABRAHAM J. BOYARSKY WILLIAM P. BYERS JOSÉ GARRIDO PAWEŁ GORA RICHARD L. HALL JOHN HARNAD JOEL HILLEL HERSHY KISILEVSKY DMITRI KOROTKIN HARALD W. PROPPE ROBERT RAPHAEL ALEXANDER SHNIRELMAN ANNA SIERPINSKA RONALD J. STERN FRED E. SZABO FRANCISCO THAINE-PRADA</p> <p><i>Professor of Mathematics and Computer Science</i> JOHN McKAY</p> <p><i>Professor of Mathematics and Physics</i> MARIANA FRANK</p>	<p><i>Associate Professors</i> MARCO BERTOLA JOSEF BRODY G. ELIE COHEN CHRISTOPHER J. CUMMINS GALIA DAFNI CHANTAL DAVID JAMES C. HAYES ADRIAN IOVITA ATTILA KEVICZKY ARUSHARKA SEN XIAOWEN ZHOU</p> <p><i>Assistant Professors</i> PATRICE GAILLARDETZ CODY HYNDMAN WENYU JIANG LEA POPOVIC ALINA STANCU WEI SUN LENNART VAN VEEN</p> <p><i>Senior Lecturer</i> YURI KHIIDIROV</p> <p><i>Lecturer</i> DEBORAJ SEN</p>
	<p><i>Location</i> Sir George Williams Campus J.W. McConnell Building, Room: LB 901 514-848-2424 ext. 3223</p>	
	<p><i>Department Objectives</i></p> <p>The Department of Mathematics and Statistics provides the general mathematical culture necessary for training those who will either be using the tools of mathematics or statistics in their work or who will become future mathematicians or statisticians. For students who are contemplating graduate work in mathematics or statistics, the Department has leading researchers in the fields of Actuarial Mathematics, Applied Probability, Computational Algebra, Differential Geometry, Dynamical Systems, Mathematical Physics, Mathematics Education, Number Theory and Statistics.</p> <p>In addition to its co-op program, alternating work and academic terms, the Department offers a program in Actuarial Mathematics and prepares students for the associateship examinations of the Society of Actuaries and the Casualty Actuarial Society.</p> <p>The Department also provides instruction at the remedial and introductory levels to enable students who have been out of school for some time to re-enter the academic stream; and offers special courses for teachers of mathematics who wish to keep abreast of recent ideas and applications.</p>	
	<p><i>Programs</i></p> <p>Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).</p> <p>A student wishing to follow a program in the Department of Mathematics and Statistics but not meeting the entrance requirements should consult with one of the Department's academic advisors. By careful choice of electives, students can select whether the emphasis of the program will be in the area of Actuarial Mathematics, Pure and Applied Mathematics, or Statistics through Specialization/Honours programs in the respective areas.</p> <p>The enrolment in Specialization/Honours will be on a selective basis, whereas the Major will be open to all students. However, students with less than a 70% average in Cegep Mathematics courses will be required to take a six-credit "transition" Calculus and Linear Algebra course (MAST 214) upon entry into the MATH/STAT Major. The course will not count for credits in the Major.</p> <p>Students in a Mathematics and Statistics program may not take any of the following courses for credit: EMAT 212, 232, 252, 271. Students wishing to take other Engineering Mathematics courses for credit must obtain prior approval of the Department.</p>	

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.

66 BA or BSc Honours in Actuarial Mathematics

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
- 30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
- 3 Chosen from ACTU 286¹, 386², 486²; MAST 232³, 332³; STAT 287¹, 388²
- 6 Honours project ACTU 493

60 BA or BSc Specialization in Actuarial Mathematics

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
- 30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
- 3 Chosen from ACTU 286¹, 386², 486²; MAST 232³, 332³; STAT 287¹, 388²

90 BA or BSc Specialization in Actuarial Mathematics/Finance

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
- 30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
- 3 Chosen from ACTU 286¹, 386², 486²; STAT 287¹
- 21 ECON 201³, 203³; COMM 220³, 308³; ACCO 230³; FINA 385³, 395³
- 9 Chosen from 400-level Finance courses

90 BA or BSc Specialization in Mathematical and Computational Finance

- 30 MATH 251³, 252³, 264³, 265³, 364³, 365³, 370³, 371³, 464³, 467³
- 24 STAT 249³, 250³, 349³, 360³, 449³, 452³, 460³, 461³
- 36 ACCO 230³; COMM 220³, 308³; COMP 218³; ECON 201³, 203³; FINA 385³, 395³, 412³, 413³; MACF 401³, 402³

66 BA or BSc Honours in Pure and Applied Mathematics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
- 9 MATH 366³, 369³, 464³
- 9 Chosen from MATH 467³, 470³, 471³, 474³, 475³, 478³, 479³; STAT 449³, 452³
- 3 Chosen from MAST 232³, 332³; STAT 287¹, 388²
- 9 MATH/STAT chosen with prior departmental approval
- 6 Honours project MATH 496

60 BA or BSc Specialization in Pure and Applied Mathematics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
- 9 MATH 366³, 369³, 464³

- 9 Chosen from MATH 467³, 470³, 471³, 474³, 475³, 478³, 479³; STAT 449³, 452³

- 3 Chosen from MAST 232³, 332³; STAT 287¹, 388²

- 9 MATH/STAT chosen with prior departmental approval

66 BA or BSc Honours in Statistics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³

- 12 MATH 366³; STAT 349³, 360³, 450³
- 6 Chosen from MATH 464³, 467³, 478³, 479³; STAT 449³, 452³, 460³, 461³, 480³ or DESC 445³

- 3 Chosen from MAST 232³, 332³, 333³; STAT 287¹, 388²

- 9 MATH/STAT chosen with prior departmental approval

- 6 Honours project STAT 499

60 BA or BSc Specialization in Statistics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³

- 12 MATH 366³; STAT 349³, 360³, 450³
- 6 Chosen from MATH 464³, 467³, 478³, 479³; STAT 449³, 452³, 460³, 461³, 480³ or DESC 445³

- 3 Chosen from MAST 232³, 332³, 333³; STAT 287¹, 388²

- 9 MATH/STAT chosen with prior departmental approval

42 BA or BSc Major in Mathematics and Statistics

- 36 COMP 218³ or 248³; MAST 217³ or COMP 238³; MAST 218³, 219³, 221³, 224³, 232³, 234³, 235³, 331³, 332³, 333³

- 3 Chosen from MAST 223³, 330³, 334³, 335³, 397³, 398³

- 3 Chosen with prior departmental approval*

*NOTE: This category may also include any other courses in the ACTU/MATH/STAT discipline, or certain courses in COMP or PHYS. It is not intended to include courses unrelated to the mathematical disciplines.

78 BA or BSc Joint Major in Mathematics and Statistics and Computer Applications

Mathematics and Statistics Component

- 42 COMP 248³; MAST 217³ or COMP 238³; MAST 218³, 219³, 221³, 224³, 232³, 234³, 235³, 331³, 332³ or COMP 367³; MAST 333³, 334³ or COMP 361³; MATH 339³

Computer Science Component (see §71.85)

- 36 COMP 228³, 229³, 239³, 249³, 335³, 346⁴, 348³, 352³, 353⁴, 354⁴; ENCS 282³

NOTE: The Computer Science component together with the following courses in the Mathe-

mathematics and Statistics component: MAST 217 (or COMP 238), COMP 248, and MAST 332 (or COMP 367) constitutes the 45-credit Computer Applications Option.

NOTE: This program is offered jointly by the Faculty of Arts and Science and the Faculty of Engineering and Computer Science. Students may apply for a Bachelor of/Baccalaureate in Arts or a Bachelor of/Baccalaureate in Science from the Department of Mathematics and Statistics or a

Bachelor of/Baccalaureate in Computer Science, Computer Applications Option. The program description for the latter appears in §71.85 of this Calendar.

24 Minor in Mathematics and Statistics

18 MAST 217³, 218³, 219³, 221³, 223³, 224³
6 MATH/STAT chosen with prior departmental approval from MAST 234³, 235³, 330³, 331³, 332³, 333³, 334³, 335³, 397³, 398³

Mathematics and Statistics Co-operative Program

MATHEMATICS AND STATISTICS CO-OPERATIVE PROGRAM

Director
WILLIAM P. BYERS, Professor

The Mathematics and Statistics Co-operative program is offered to students who are enrolled in the BA or BSc Honours or Specialization programs. Students interested in applying for the Mathematics and Statistics co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is identical to that of the regular program, but six study terms are interspersed with four work terms.

Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format.

Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Mathematics and Statistics co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Actuarial Mathematics

ACTU 256 *Mathematics of Finance* (3 credits)

Prerequisite: MATH 264 previously or concurrently; and permission of the Department. Measurement of interest; annuities and perpetuities; amortization and sinking funds; rates of return; bonds and related securities; life insurance.

NOTE: Students who have received credit for MATH 326 may not take this course for credit.

NOTE: Only three credits will be awarded from ACTU 256; MAST 335.

ACTU 257 *Actuarial Mathematics I* (3 credits)

Prerequisite: ACTU 256. Measurement of mortality; pure endowments; life insurance; net single premiums; life annuities; net annual premiums; special topics.

NOTE: Students who have received credit for MATH 327 may not take this course for credit.

ACTU 286 *Actuarial Mathematics Lab I* (1 credit)

This lab features problem-solving sessions for the professional examination on financial mathematics of the Society of Actuaries and the Casualty Actuarial Society.

NOTE: Students who have received credit for MATH 229 may not take this course for credit.

ACTU 357 *Actuarial Mathematics II* (3 credits)

Prerequisite: ACTU 257. Net level premium reserves; multiple life functions; multiple decrements, the expense factor; special topics.

NOTE: Students who have received credit for MATH 427 may not take this course for credit.

ACTU 386 *Actuarial Mathematics Lab II* (2 credits)

This lab will feature the use of programming languages and software applications.

NOTE: Students who have received credit for MATH 232 may not take this course for credit.

ACTU 456 *Pension Mathematics* (3 credits)

Prerequisite: ACTU 357. Valuation methods; gains and losses; dynamic control; special topics.

ACTU 457 *Risk Theory* (3 credits)

Prerequisite: ACTU 257. Applications of contingency theory in health insurance, individual and collective risk theory, ruin theory.

NOTE: Students who have received credit for MATH 428 may not take this course for credit.

ACTU 458 *Credibility Theory* (3 credits)

Prerequisite: ACTU 457; STAT 349 previously or concurrently. Credibility approach to inference for heterogeneous data; classical, regression and Bayesian models; illustrations with insurance data.

ACTU 459 *Loss Distributions* (3 credits)
Prerequisite: ACTU 457; STAT 360. Probability model fitting to loss data; estimation and testing under variety of procedures and sampling designs.

ACTU 486 *Actuarial Mathematics Lab III* (2 credits)

This lab will be a workshop designed to prepare students for the Actuarial Models examination of the Society of Actuaries and the Casualty Actuarial Society.

NOTE: Students who have received credit for MATH 429 may not take this course for credit.

ACTU 491 *Topics in Actuarial Mathematics* (3 credits)

ACTU 492 *Reading Course in Actuarial Mathematics* (3 credits)

ACTU 493 *Honours Project in Actuarial Mathematics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Mathematical and Computational Finance

MACF 401 *Mathematical and Computational Finance I* (3 credits)

Prerequisite: FINA 385; MATH 365; STAT 449 previously or concurrently. This course is a rigorous introduction to the theory of mathematical and computational finance. Multi-period binomial model; state prices; change of measure; stopping times; European and American derivative securities; interest-rate models; interest-rate derivatives; hedging; convergence to the Black-Scholes model.

MACF 402 *Mathematical and Computational Finance II* (3 credits)

Prerequisite: MACF 401; STAT 449; STAT 452 previously or concurrently. This course is a continuation of MACF 401 and focuses on modelling and computational techniques beyond the binomial model. Simulation; Monte-Carlo methods in finance; option valuation; hedging; heat equation; finite difference techniques; stability and convergence; exotic derivatives; risk management; calibration and parameter estimation.

Mathematics and Statistics

MAST 214 *Calculus and Linear Algebra* (6 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB. Functions; maxima and minima. Velocity and acceleration. Iterative solution of equations, parametric equation of curves. Integrals; change of variables, integration by parts, double integrals, numerical integration. Conic sections. Matrices, determinants, eigen-

values, eigenvectors, system of equations. Series and their convergence. Introduction to vector space and complex numbers. Word problems.

NOTE: This course can be counted as an elective towards a 90-credit degree program, but must be taken before any other post-Cegep Mathematics course except for MAST 217, which may be taken concurrently. It must be taken, upon entry, by newly admitted students in the MATH/STAT Major who have less than 70% average in Cegep Mathematics courses.

MAST 217 *Introduction to Mathematical Thinking* (3 credits)

Prerequisite: MATH 203 or Cegep Mathematics 103 or 201-NYA; MATH 204 or Cegep Mathematics 105 or 201-NYC or equivalent. This course aims to foster analytical thinking through a problem-solving approach. Topics include construction of proofs, number systems, ordinality and cardinality, role of examples and counter examples, role of generalizations and specializations; role of symbols, notations and definitions; styles of mathematical discourse.

NOTE: Students who have received credit for MASZ 217 or MATH 216 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 217; COMP 238.

NOTE: This course cannot be taken for credit by students in the Specialization/Honours stream.

NOTE: Students with more than 12 credits in post-Cegep Mathematics may not take this course for credit.

MAST 218 *Multivariable Calculus I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Vector geometry; lines and planes; curves in \mathbb{R}^n ; vector functions; vector differential calculus; extrema and Lagrange multipliers. Introduction to multiple integrals and coordinate transformations. Problem solving with MAPLE.

NOTE: Students who have received credit for MATH 262 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 218; MATH 264.

MAST 219 *Multivariable Calculus II* (3 credits)

Prerequisite: MAST 218 or equivalent. Vector integral calculus; line and surface integrals; Green's, Stokes' and Gauss' theorems; coordinate transformations and Jacobians. Power series, applications. Problem solving with MAPLE.

NOTE: Students who have received credit for MATH 263 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 219; MATH 265.

MAST 221 *Applied Probability* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Counting rules, discrete probability distributions; random sampling; conditional probability; means

and variances, normal and other continuous sampling distributions. Applications. Use of MINITAB and/or SYSTAT.
NOTE: Students who have received credit for MATH 242 or STAT 249 may not take this course for credit.
NOTE: Students who have received credit for MAST 221 may only take STAT 249 for credit with prior permission of the Department.

MAST 223 *Introduction to Stochastic Methods of Operations Research* (3 credits)
 Prerequisite: MAST 221 or equivalent. Markov chains; queuing theory; inventory theory; Markov decision processes; applications to reliability.
NOTE: Students who have received credit for MATH 337 may not take this course for credit.

MAST 224 *Introduction to Optimization* (3 credits)
 Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Introduction to the theory of optimization; linear programming; the simplex method; duality and transportation problem. Introduction to graphs and networks; applications. Use of computing softwares.
NOTE: Students who have received credit for MATH 231 may not take this course for credit.

MAST 232 *Mathematics with Computer Algebra* (3 credits)
 Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. An introduction to the use of a high-level mathematical programming language (MAPLE or MATHEMATICA) as a practical aid in doing mathematics. Most classes are given in an interactive way in the computer laboratory. The emphasis is on applications, not on general programming techniques or abstract structures. The aim is to arrive at a sufficient working familiarity with the computer algebra language to permit its regular use in subsequent studies and applications. The commands and online resources are introduced through a review of arithmetic, complex numbers, algebra, Euclidean geometry, trigonometry, coordinate systems and graphing, elementary functions and transformations, series, derivatives, integrals, vectors and matrices. There may be additional topics from domains such as number theory, differential equations, integral transforms, probability and statistics.
NOTE: Students who have received credit for MAST 332 or COMP 367 or 467, or for this topic under an MAST 397 number, may not take this course for credit.

MAST 234 *Linear Algebra and Applications I* (3 credits)
 Prerequisite: Cegep Mathematics 105 or 201-NYC or equivalent. System of linear equations, matrix operations, echelon forms and LU-factorization; \mathbb{R}^n : subspaces, linear dependence, basis, dimen-

sion, matrix transformations; eigenvalues and eigenvectors in \mathbb{R}^n and applications (e.g. Markov chains, dynamical systems). The software MAPLE is extensively used.
NOTE: Students who have received credit for MATH 251, 282 or ECON 325 may not take this course for credit.
NOTE: Only three credits will be awarded from MAST 234; MATH 251.

MAST 235 *Linear Algebra and Applications II* (3 credits)
 Prerequisite: MAST 234 or equivalent. \mathbb{R}^n : Orthogonality, projections, Gram-Schmidt method and QR-factorization; applications to least square methods (data fitting, inconsistent systems). Symmetric matrices, principal axes theorem and applications. Special topics (e.g. coding theory, differential equations, error analysis). The software MAPLE will be extensively used.
NOTE: Students who have received credit for MATH 252 or 283 may not take this course for credit.
NOTE: Only three credits will be awarded from MAST 235; MATH 252.

MAST 330 *Differential Equations* (3 credits)
 Prerequisite: MAST 218 or equivalent. First order differential equations; second order differential equations; Laplace transform methods; mathematical models and numerical methods.
NOTE: Students who have received credit for MATH 271 may not take this course for credit.

MAST 331 *Mathematical Modelling* (3 credits)
 Prerequisite: MAST 221, 224 previously or concurrently, 234 or equivalent. Introduction to mathematical modelling; predator-prey models in biology, game theory, decision analysis, stability theory; modelling electric circuits.

MAST 332 *Techniques in Symbolic Computation* (3 credits)
 Prerequisite: MAST 217 or COMP 238 or equivalent; COMP 248 or equivalent; MAST 232 or permission of the Department. This course is an application-oriented introduction to symbolic computation, as it applies to algebra, number theory and combinatorics covering the following topics: capabilities of symbolic systems (e.g. MAPLE), modular methods, arithmetic mod p , arithmetic mod m , matrices mod p , Chinese remainder theorem, polynomial factorization mod p . Applications to coding theory and cryptography. Combinatorial algorithms.
NOTE: Students who have received credit for MATH 232 or COMP 367 or 467 may not take this course for credit.

MAST 333 *Applied Statistics* (3 credits)
 Prerequisite: MAST 221 or equivalent. Graphical and numerical descriptive methods; Estimation and hypothesis testing; linear regression and correlation; one way ANOVA; contingency and goodness of fit tests. Use of statistical software,

e.g. MINITAB or SYSTAT.

NOTE: Students who have received credit for MATH 243 or STAT 360 may not take this course for credit.

MAST 334 Numerical Analysis (3 credits)
Prerequisite: MAST 219 or equivalent;
MAST 232 or equivalent; MAST 235 previously or concurrently. Introduction to computing softwares; numerical solution of non-linear equations; interpolations and approximations; quadrature and numerical integration.
NOTE: Students who have received credit for MATH 311 or 354 may not take this course for credit.

MAST 335 Investment Mathematics (3 credits)
Prerequisite: MAST 218 or equivalent. Simple and compound interest; annuities; amortization and sinking funds; mortgage schemes; bonds and related securities; capital cost and depletion; spread-sheet implementation.
NOTE: Students who have received credit for MATH 326 may not take this course for credit.
NOTE: Only three credits will be awarded from MAST 335; ACTU 256.

MAST 397 Topics in Mathematics and Statistics (3 credits)

MAST 398 Reading Course in Mathematics and Statistics (3 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Mathematics

MATH 200 Fundamental Concepts of Algebra (3 credits)
This course is designed to give students the background necessary for MATH 201. Some previous exposure to algebra is assumed. Sets, algebraic techniques, inequalities, graphs of equations.
NOTE: Students who have received credit or exemption for a course at the level of MATH 201 or above may not take this course for credit.
NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 201 Elementary Functions (3 credits)
Sets, inequalities, graphs of functions, and relations. Trigonometric, exponential, and logarithmic functions. Lectures and laboratory.
NOTE: Students who have received credit or exemption for MATH 203 or equivalent, or for a course having MATH 203 or equivalent in its sequence of prerequisites, may not take this course for credit.
NOTE: Students in programs leading to the BSc

degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 202 College Algebra (3 credits)
Prerequisite: MATH 201 or equivalent.
Progressions, combinations, permutations, binomial theorem, mathematical induction, inequalities, polynomials, cartesian and polar forms of complex numbers, conics.
NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 203 Differential and Integral Calculus I (3 credits)
Prerequisite: MATH 201 or equivalent. Functional notation. Differentiation of polynomials. The power, product, quotient, and chain rules. Differentiation of elementary functions. Implicit differentiation. Higher derivatives. Maxima and minima. Applications: tangents to plane curves, graphing, related rates. Approximations using the differential. Antiderivatives, definite integrals, area. Lectures and laboratory.
NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 204 Vectors and Matrices (3 credits)
Prerequisite: MATH 201 or equivalent. Algebra and geometry of vectors, dot and cross products, lines and planes. System of equations, operations on matrices, rank, inverse, quadratic form, and rotation of axes.
NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 205 Differential and Integral Calculus II (3 credits)
Prerequisite: MATH 203. Techniques of integration: substitutions, integration by parts, partial fractions. Improper integrals. Physical applications of the definite integral. Infinite series: tests for convergence. Power series, Taylor's theorem. Lectures and laboratory.
NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 206 Algebra and Functions (3 credits)
Coordinate systems. Radicals and distance formula. Polynomials, factoring, and graphing. Relations and functions. Linear and quadratic functions, equations, and systems. Exponents, exponential and logarithmic functions and equations.
NOTE: Students who have received credit or exemption for a course at the level of MATH 201 or above may not take this course for credit.
NOTE: Students in programs leading to the BSc

degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 208 *Fundamental Mathematics I*
(3 credits)

Prerequisite: MATH 206 or equivalent. This course is a prerequisite course for Commerce and Administration students*. Matrices, Gaussian elimination, input-output analysis, progressions, compound interest, annuities, permutations and combinations, probability, binomial theorem, exponential and logarithmic functions, inequalities, linear programming.

*NOTE: See §14.2.2 (Mature Entry) and 61.20 (Extended Credit).

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 209 *Fundamental Mathematics II*
(3 credits)

Prerequisite: MATH 206 or equivalent. This course is a prerequisite course for Commerce and Administration students*. Limits; differentiation of rational, exponential, and logarithmic functions; theory of maxima and minima; integration.

*NOTE: See §14.2.2 (Mature Entry) and 61.20 (Extended Credit).

NOTE: Students who have received credit or exemption for MATH 203 or equivalent may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 212 *The Fascinating World of Numbers* (3 credits)

This course deals with a blend of fascinating mathematical themes in various contexts: historical, cultural, and practical. It is intended for non-mathematics students. One of the aims of the course is to demonstrate the presence of mathematics and mathematical ideas in many aspects of modern life. At a deeper level, it is also intended to explain what mathematics is all about and why some easily stated assertions, such as Fermat's last theorem, are so difficult to prove. Students who complete the course successfully should have enough understanding and knowledge of fundamental ideas and techniques of mathematics to appreciate its power, its beauty, and its relevance in so many different fields such as architecture, art, commerce, engineering, music, and all of the sciences.

NOTE: Students who have received credit for this topic under an MATH 298 or MATZ 298 number may not take this course for credit.

NOTE: Students enrolled in a Mathematics and Statistics program and students who have taken mathematics beyond the pre-calculus level may not take this course for credit.

MATH 215 *Great Ideas in Mathematics*
(3 credits)

Mathematics is used to unravel the secrets of nature. This course introduces students to the world of mathematical ideas and mathematical thinking. Without being overly technical, that is, without requiring any formal background from the student other than high school mathematics, the course delves into some of the great ideas of mathematics. The topics discussed range from the geometric results of the Ancient Greeks to the notion of infinity to more modern developments.

NOTE: This course is designed as a suitable elective for students following an undergraduate program. It has no formal prerequisites and will not qualify students to enrol for any other Mathematics course, and cannot be used to satisfy a Mathematics requirement in any BSc or BA program.

NOTE: Students who have received credit for INTE 215 or MATZ 215 may not take this course for credit.

MATH 220 *Mathematical Methods in Chemistry* (3 credits)

Prerequisite: Cegep Mathematics 203 or 201-NYB or MATH 205. Partial derivatives. First-order differential equations (first- and second-order chemical reactions). Hermite, Laguerre, and Legendre equations. Solutions by power series. Eigenfunctions and eigenvalues, Sturm-Liouville theory.

MATH 251 *Linear Algebra I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Matrices and linear equations; vector spaces; bases, dimension and rank; linear mappings and algebra of linear operators; matrix representation of linear operators; determinants; eigenvalues and eigenvectors; diagonalization.

NOTE: Students who have received credit for MAST 234, MATH 282 or ECON 325 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 251; MAST 234.

MATH 252 *Linear Algebra II* (3 credits)

Prerequisite: MATH 251 or equivalent. Characteristic and minimum polynomials; invariant subspaces, invariant direct sums; nilpotent operators, Jordan canonical form; cyclic subspaces; rational canonical form; bilinear and quadratic forms; inner product; orthogonality; adjoint operators and orthogonal operators.

NOTE: Students who have received credit for MAST 235 or MATH 283 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 252; MAST 235.

MATH 264 *Advanced Calculus I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Introduction to limits and continuity in \mathbb{R}^n . Multivariate calculus: the derivative as a linear approximation;

matrix representation of derivatives; tangent spaces; gradients, extrema, including Lagrange multipliers, Taylor's formula and the classification of critical points.

NOTE: Students who have received credit for MATH 262 or 344 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 264; MAST 218.

MATH 265 *Advanced Calculus II* (3 credits)

Prerequisite: MATH 264 or equivalent. Implicit functions and the implicit function theorem. Multiple integrals and change of variables. Curves, surfaces and vector calculus.

NOTE: Students who have received credit for MATH 263 or 345 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 265; MAST 219.

MATH 339 *Combinatorics* (3 credits)

Prerequisite: Eighteen credits in post-Cegep Mathematics. General principle of counting, permutations, combinations, identities, generating functions; Fibonacci numbers; partitions, recurrence relations, Stirling numbers, Catalan numbers, principle of inclusion-exclusion, cycles of a permutation, orbits of permutation groups, parity of a permutation, Polya's theorem.

NOTE: Students who have received credit for MATH 334 may not take this course for credit.

MATH 352 *Linear Algebra III* (3 credits)

Prerequisite: MATH 252. Matrices, linear transformations, determinants, metric concepts, inner-product spaces, dual spaces, spectral theorem, bilinear and quadratic forms, canonical forms for linear transformation, matrix functions, selected topics.

NOTE: Students who have received credit for MATH 381 may not take this course for credit.

MATH 354 *Numerical Analysis* (3 credits)

Prerequisite: MATH 265 or equivalent; MATH 252 or equivalent, previously or concurrently. Error analysis in numerical algorithms; solution of non-linear equations; fixed point iterations, rate of convergence. Interpolations and approximations, Legendre polynomials. Numerical integration and quadrature.

NOTE: Students who have received credit for MATH 311 or MAST 334 may not take this course for credit.

MATH 361 *Operations Research I* (3 credits)

Prerequisite: MATH 251 or equivalent. Introduction to the theory of optimization; linear programming, simplex method; revised simplex method; transport and assignment problems; integer programming; introduction to graphs and networks.

NOTE: Students who have received credit for MATH 231 may not take this course for credit.

MATH 364 *Analysis I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Math-

ematical rigour: proofs and counter-examples; quantifiers; number systems; Cardinality, decimal representation, density of the rationals, least upper bound. Sequences and series; review of functions, limits and continuity.

NOTE: Students who have received credit for MATH 244 or 362 may not take this course for credit.

MATH 365 *Analysis II* (3 credits)

Prerequisite: MATH 364 or equivalent. Connectedness and compactness in the reals. Intermediate value theorem; extreme values for continuous functions. Differential and integral calculus; fundamental theorem of calculus; power series.

NOTE: Students who have received credit for MATH 245 or 363 may not take this course for credit.

MATH 366 *Complex Analysis I* (3 credits)

Prerequisite: MATH 264 or equivalent. Algebra and geometry of complex numbers, linear transformations, analytic functions, Laurent's series, calculus of residues, special functions.

MATH 369 *Abstract Algebra I* (3 credits)

Prerequisite: Twelve credits in post-Cegep Mathematics or permission of the Department. Introduction to the ring of integers and the integers modulo N . Groups: definitions and examples; subgroups, quotients and homomorphisms (including Lagrange's theorem, Cayley's theorem and the isomorphism theorems). Introduction to the Cauchy and Sylow theorems and applications.

NOTE: Students who have received credit for MATH 393 may not take this course for credit.

MATH 370 *Ordinary Differential Equations* (3 credits)

Prerequisite: MATH 252, 365, or equivalent. Separable equations, exact equations, integrating factors, force fields, first order linear equations, input-output concept, second order equations, Sturm-Liouville problems, applications, series solutions, reduction of order, variation of parameters, n th-order linear equations with constant coefficients, Laplace transforms, block diagrams, and signal-flow graphs.

NOTE: Students who have received credit for MATH 271 or MAST 330 may not take this course for credit.

MATH 371 *Partial Differential Equations* (3 credits)

Prerequisite: MATH 370 or equivalent. Canonical forms for second order linear equations with constant coefficients, classification of linear second order equations, method of separation of variables, first order PDE's, method of characteristics. Non-linear first order equations, complete integrals, Cauchy conditions, Cauchy-Kowalewski theorem, Fourier and Laplace transforms, Green's functions, integral representations, introduction to non-linear PDE's.

MATH 380 *Differential Geometry* (3 credits)

Prerequisite: MATH 252, 365, 370. Calculus on Euclidian spaces, tangent vectors, directional

derivatives, differential forms, mappings, curves, frame fields, Serret-Frenet formulae, covariant derivatives; calculus on a surface, tangent spaces, differential forms on a surface, mappings between surfaces, integration of forms, Stokes' theorem.

MATH 387 Mathematics Lab III (2 credits)
This lab will demonstrate the use of MAPLE software for Calculus, Linear Algebra, and Statistics.
NOTE: Students who have received credit for MATH 232 may not take this course for credit.

MATH 392 Elementary Number Theory (3 credits)
Prerequisite: Eighteen credits in post-Cegep Mathematics. Number systems, division and factorization, number-theoretic functions, congruences, algebraic congruences and primitive roots, quadratic residues, diophantine equations.

MATH 397 History of Mathematics (3 credits)
Prerequisite: MATH 252 or permission of the Department; MATH 365. Early mathematics, Greek mathematics, European mathematics in the Middle Ages, the origin and development of analytic geometry and calculus, mathematics as free creation, the generality of mathematics in the twentieth century.

MATH 433 Calculus of Variations (3 credits)
Prerequisite: MATH 265, 365, 370 or equivalent. Nature of problems, weak variations, the first variation, Euler's equation. The second variation, Jacobi's equation, Legendre's test, conjugate points. Relative maxima and minima, iso-perimetrical problems. Integrals with variable end points. Applications to problems in pure and applied mathematics; the principle of least action. Strong variations, the Weierstrass E-function.

MATH 464 Real Analysis (3 credits)
Prerequisite: MATH 265, 365 or equivalent. Metric spaces; function spaces; compactness, completeness, fixed-point theorems, Ascoli-Arzelà theorem, Weierstrass approximation theorem.

MATH 466 Complex Analysis II (3 credits)
Prerequisite: MATH 265, 365, 366 or equivalent. Cauchy's theorem, singularities, maximum modulus principle, uniqueness theorem, normal families, Riemann mapping theorem.

MATH 467 Measure Theory (3 credits)
Prerequisite: MATH 265, 365 and 464 previously or concurrently, or equivalent. Lebesgue measure and integration on the real line, convergence theorems, absolute continuity, completeness of $L^2[0,1]$.

MATH 470 Abstract Algebra II (3 credits)
Prerequisite: MATH 369 or equivalent. Group action and proof of the Sylow theorems. Introduction to rings, ideals, euclidean domains, principal ideal domains and unique factorization domains; polynomial rings.
NOTE: Students who have received credit for MATH 394 may not take this course for credit.

MATH 471 Abstract Algebra III (3 credits)
Prerequisite: MATH 470 or equivalent. Rings and modules; structure theorem of modules over principal ideal domains. Noetherian rings and modules (including Hilbert basis theorem for rings and modules). Hilbert's Nullstellensatz.
NOTE: Students who have received credit for MATH 491 may not take this course for credit.

MATH 472 Abstract Algebra IV (3 credits)
Prerequisite: MATH 470 or equivalent. Elements of field and Galois theory, including straight-edge-and-compass construction and unsolvability of equations of fifth degree by radicals.
NOTE: Students who have received credit for MATH 492 may not take this course for credit.

MATH 474 Linear and Non-Linear Dynamical Systems (3 credits)
Prerequisite: MATH 265, 365 or equivalent, or permission of the Department. Systems of linear differential equations; fundamental matrices; non-homogeneous linear systems; non-linear systems; solutions and trajectories; the phase plane; stability concepts; Liapounov's second method; periodic solutions and limit cycles; introduction to boundary-value problems and Sturm-Liouville theory.
NOTE: Students who have received credit for MATH 373 may not take this course for credit.

MATH 475 Discrete Dynamical Systems, Chaos and Fractals (3 credits)
Prerequisite: MATH 265, 365 or equivalent, or permission of the Department. Introduction to discrete dynamical modelling; periodic points; bifurcation; period three points; symbolic dynamics; chaos; transitivity; conjugacy; complex behaviour; introduction to fractals; computer simulations.
NOTE: Students who have received credit for MATH 379 may not take this course for credit.

MATH 478 Non-Linear Programming (3 credits)
Prerequisite: MATH 361 or permission of the Department. Classical methods of optimization, Lagrange multipliers, Kuhn-Tucker conditions; line search methods, quadratic programming, gradient methods, introduction to dynamic programming.
NOTE: Students who have received credit for MATH 436 may not take this course for credit.

MATH 479 Convex and Non-Linear Analysis (3 credits)
Prerequisite: MATH 361 or permission of the Department. Support and separation of convex sets, extreme point characterizations, convex and dual cones, Farkas' theorem; minimax theorem of Game Theory, Legendre-Fenchel conjugate, infimal convolution, subgradient calculus; Lagrangians, necessary and sufficient conditions for optimality in constrained minimization; the dual problem.

- MATH 494** *Topics in Pure and Applied Mathematics* (3 credits)
- MATH 495** *Reading Course in Pure and Applied Mathematics* (3 credits)
- MATH 496** *Honours Project in Pure and Applied Mathematics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Statistics

STAT 249 *Probability I* (3 credits)
Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent.
Axiomatic approach to probability; combinatorial probability; discrete and continuous distributions; expectation; conditional expectation; random sampling and sampling distributions.
NOTE: Students who have received credit for MATH 242 may not take this course for credit.
NOTE: Students who have received credit for MAST 221 may only take STAT 249 for credit with prior permission of the Department.

STAT 250 *Statistics* (3 credits)
Prerequisite: STAT 249 or equivalent. Point and interval estimation; hypothesis testing; Neyman Pearson Lemma and likelihood ratio tests; introduction to correlation and regression.
NOTE: Students who have received credit for MATH 243 may not take this course for credit.

STAT 287 *Statistics Lab I* (1 credit)
This lab is associated with STAT 249 and 250 and features problem-solving sessions for the probability examination of the Society of Actuaries and the Casualty Actuarial Society.
NOTE: Students who have received credit for MATH 329 may not take this course for credit.

STAT 342 *Industrial Statistics* (3 credits)
Prerequisite: STAT 250 or MAST 333. Concepts of statistical quality control; \bar{X} , R , P , and C control charts, acceptance sampling, sampling inspection, continuous sampling plans.
NOTE: Students who have received credit for MATH 342 may not take this course for credit.

STAT 343 *Sample Survey Theory and Applications* (3 credits)
Prerequisite: STAT 250 or MAST 333. Basic sampling designs and estimators; simple random sampling, stratified, cluster and systematic sampling. Sampling with unequal probabilities; ratio and regression methods of estimation.
NOTE: Students who have received credit for MATH 343 may not take this course for credit.

STAT 347 *Introduction to Non-Parametric Statistics* (3 credits)
Prerequisite: STAT 250 or MAST 333. Theory of rank tests, sign test, Mann-Whitney and Wilcoxon one-sample and two-sample tests, Kruskal-Wallis test, goodness of fit tests, Kolmogorov-Smirnov

test, Pearson chi-square test, rank correlation and Kendall's tau.

NOTE: Students who have received credit for MATH 347 may not take this course for credit.

STAT 349 *Probability II* (3 credits)
Prerequisite: STAT 249 or equivalent. Markov decision process and applications. Poisson process, queuing theory, inventory theory; applications.
NOTE: Students who have received credit for MATH 337 and/or MATH 351 may not take this course for credit.

STAT 360 *Linear Models* (3 credits)
Prerequisite: STAT 250 or equivalent. Least-squares estimators and their properties. General linear model with full rank. Analysis of residuals; adequacy of model, lack of fit test, weighted least squares; stepwise regression, Durbin-Watson statistic; one way and two way analysis of variance.
NOTE: Students who have received credit for MATH 348 may not take this course for credit.

STAT 388 *Statistics Lab II* (2 credits)
This lab will use various softwares such as SYSTAT, SAS, SPLUS, MINITAB for data analysis.
NOTE: Students who have received credit for MATH 232 may not take this course for credit.

STAT 449 *Advanced Probability* (3 credits)
Prerequisite: STAT 250, 349. Central limit theorems and law of large numbers, convergence of random variables, characteristic function, moment generating function, probability generating functions, random walk and reflection principle.
NOTE: Students who have received credit for MATH 451 may not take this course for credit.

STAT 450 *Mathematical Statistics* (3 credits)
Prerequisite: STAT 250, 349 previously or concurrently, or permission of the Department. Derivation of standard sampling distributions; distribution of order-statistics; estimation, properties of estimators; Rao-Cramer inequality, Rao-Blackwell theorem, maximum likelihood and method of moments estimation, Neyman-Pearson theory, likelihood ratio tests and their properties.
NOTE: Students who have received credit for MATH 454 may not take this course for credit.

STAT 452 *Introduction to Stochastic Processes* (3 credits)
Prerequisite: STAT 449. Continuous stochastic processes. Poisson processes, continuous time Markov process, queuing models, birth and death processes, renewal theory.
NOTE: Students who have received credit for MATH 353 may not take this course for credit.

STAT 460 *Time Series and Forecasting* (3 credits)
Prerequisite: STAT 360. Time series, forecasting by trend and irregular components (using multiple regression analysis and exponential

smoothing); forecasting seasonal time series, additive and multiplicative decomposition methods, Box-Jenkins methodology, moving average, autoregressive and mixed models.
NOTE: Students who have received credit for MATH 443 may not take this course for credit.

STAT 461 *Operations Research II*
(3 credits)

Prerequisite: STAT 349. Simulation and Monte-Carlo techniques; selected topics in operations research.
NOTE: Students who have received credit for MATH 437 may not take this course for credit.

STAT 465 *Multivariate Statistics* (3 credits)

Prerequisite: MATH 252; STAT 360 or equivalent. Multivariate normal distribution; estimation and testing of hypothesis about mean vector; multiple and partial correlation; MANOVA; principal components analysis.

STAT 468 *Design of Experiments*
(3 credits)

Prerequisite: STAT 360. Construction and analysis of standard designs, including balanced designs; block designs; orthogonal designs; response surface designs.

STAT 480 *Statistical Data Analysis*
(3 credits)

Prerequisite: STAT 460 or permission of the Department. The analysis of real life data sets using computer packages. Topics involve techniques from generalized linear models; model selection; log-linear models for categorical data analysis; logistic regression; censored survival models.

NOTE: Students who have received credit for MATH 445 or DESC 445 may not take this course for credit.

STAT 497 *Topics in Statistics* (3 credits)

STAT 498 *Reading Course in Statistics*
(3 credits)

STAT 499 *Honours Project in Statistics*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.220 PHILOSOPHY

Faculty	<p>Chair MATTHIAS FRITSCH, Associate Professor</p> <p>Professors MURRAY CLARKE CHRISTOPHER B. GRAY SHEILA MASON VLADIMIR ZEMAN</p> <p>Associate Professors DENNIS O'CONNOR JUSTIN SMITH</p>	<p>Assistant Professors ANDREA FALCON PABLO GILABERT SUSAN HAHN GREGORY LAVERS</p> <p>Adjunct Professors BELA EGYED GEORGE GALE KAI NIELSEN</p>																												
Location	<p>Sir George Williams Campus Annex PR, Room: 203 514-848-2424 ext. 2500</p>																													
Department Objectives	<p>The Department of Philosophy offers a broad range of studies in philosophy. This includes courses in the history of philosophy spanning three millennia and courses covering a diverse spectrum of philosophical topics and approaches. Many of the courses are designed for undergraduates pursuing studies in other disciplines in the humanities, social sciences, and sciences. The aim is to contribute to the development of critical, informed, and open minds.</p>																													
Programs	<p>The Major and Minor programs give students a solid knowledge of the aims, methods, and content of a range of major philosophical periods and traditions. The Honours program prepares students for graduate study in philosophy.</p> <p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p> <table><tr><td>60 BA Honours in Philosophy</td><td>36 BA Major in Philosophy</td></tr><tr><td><i>Stage I</i></td><td><i>Stage I</i></td></tr><tr><td>18 PHIL 214³, 232³, 260³, 261³, 263³, 265³</td><td>15 PHIL 232³, 260³, 261³, 263³, 265³</td></tr><tr><td><i>Stage II</i></td><td><i>Stage II</i></td></tr><tr><td>6 PHIL 360³, 361³</td><td>6 PHIL 360³, 361³</td></tr><tr><td>6 PHIL elective credits</td><td>9 PHIL elective credits: must include PHIL 210³ or 214^{3*}</td></tr><tr><td>12 PHIL elective or cognate credits at the 300 or 400 level*</td><td><i>Stage III</i></td></tr><tr><td><i>Stage III</i></td><td>6 PHIL elective credits at the 400 level*</td></tr><tr><td>9 PHIL 430³, 463³, 465³</td><td><i>*PHIL elective or cognate credits to be chosen in consultation with the Department.</i></td></tr><tr><td>9 PHIL elective or cognate credits at the 400 level*</td><td></td></tr><tr><td><i>*PHIL elective or cognate credits to be chosen in consultation with the Department.</i></td><td>24 Minor in Philosophy</td></tr><tr><td><i>NOTE: Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.</i></td><td>6 Chosen from PHIL 232³, 263³, 265³</td></tr><tr><td></td><td>6 PHIL elective credits at the 200 level or higher</td></tr><tr><td></td><td>12 PHIL elective credits from the 300 level or higher</td></tr></table>		60 BA Honours in Philosophy	36 BA Major in Philosophy	<i>Stage I</i>	<i>Stage I</i>	18 PHIL 214 ³ , 232 ³ , 260 ³ , 261 ³ , 263 ³ , 265 ³	15 PHIL 232 ³ , 260 ³ , 261 ³ , 263 ³ , 265 ³	<i>Stage II</i>	<i>Stage II</i>	6 PHIL 360 ³ , 361 ³	6 PHIL 360 ³ , 361 ³	6 PHIL elective credits	9 PHIL elective credits: must include PHIL 210 ³ or 214 ^{3*}	12 PHIL elective or cognate credits at the 300 or 400 level*	<i>Stage III</i>	<i>Stage III</i>	6 PHIL elective credits at the 400 level*	9 PHIL 430 ³ , 463 ³ , 465 ³	<i>*PHIL elective or cognate credits to be chosen in consultation with the Department.</i>	9 PHIL elective or cognate credits at the 400 level*		<i>*PHIL elective or cognate credits to be chosen in consultation with the Department.</i>	24 Minor in Philosophy	<i>NOTE: Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.</i>	6 Chosen from PHIL 232 ³ , 263 ³ , 265 ³		6 PHIL elective credits at the 200 level or higher		12 PHIL elective credits from the 300 level or higher
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Courses	<p><i>Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.</i></p> <table><tr><td>PHIL 201 Problems of Philosophy (3 credits)</td><td></td></tr><tr><td>In this course, students are introduced to philosophical reasoning through the study of important philosophical problems. Typical issues to be discussed are: What is knowledge? (Does</td><td>it require certainty? How is it distinct from belief?) Are human beings free? (Do people choose their actions or are their actions determined by causes outside their control?) If people are not free, then how can they be held morally responsible for their actions? Can God's existence be proven?</td></tr></table>		PHIL 201 Problems of Philosophy (3 credits)		In this course, students are introduced to philosophical reasoning through the study of important philosophical problems. Typical issues to be discussed are: What is knowledge? (Does	it require certainty? How is it distinct from belief?) Are human beings free? (Do people choose their actions or are their actions determined by causes outside their control?) If people are not free, then how can they be held morally responsible for their actions? Can God's existence be proven?																								
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(What if it cannot?) How is the mind related to the body, if at all? What is it to lead a good life? The focus of these investigations is on contemporary philosophical writings.

NOTE: Students who have received credit for PHIZ 201 may not take this course for credit.

PHIL 210 *Critical Thinking* (3 credits)

This course is an introduction to argumentation and reasoning. It focuses on the kinds of arguments one is likely to encounter in academic work, in the media, and in philosophical, social, and political debate. The course aims to improve students' ability to advance arguments persuasively and their ability to respond critically to the arguments of others. Students will find the skills they gain in this course useful in virtually every area of study.

NOTE: Students who have received credit for PHIZ 210 or for this topic under a PHIZ 298 number may not take this course for credit.

PHIL 214 *Deductive Logic* (3 credits)

This course presents the modern symbolic systems of sentential and predicate logic. Students transcribe English sentences into a logical form, analyse the concepts of logical truth, consistency, and validity, as well as learn to construct derivations in each system.

NOTE: This course may not be taken for credit by students who have taken PHIL 212.

PHIL 216 *Introduction to the Philosophy of Language* (3 credits)

This course provides an introduction to the main problems in the philosophy of language, concerned with the analysis of the concepts of meaning, reference, truth, necessity.

PHIL 218 *Inductive Logic* (3 credits)

Prerequisite: PHIL 214, or permission of the Department. This course provides an introduction to probabilistic and non-probabilistic approaches to inductive logic. Topics covered may include: Hume's problem of induction, the new riddle of induction, causality, and the interpretation of the probability calculus.

PHIL 220 *Introduction to the Philosophy of Science* (3 credits)

This course provides an introduction to the main problems in the philosophy of science. These include the structure of scientific theories, various models of scientific method and explanation, and the existence of unobservables.

NOTE: Students who have received credit for INTE 250 or PHIL 228 may not take this course for credit.

PHIL 226 *Mind and Action* (3 credits)

Drawing from contemporary work in philosophy and psychology, students have the opportunity to consider philosophical questions about the nature of the mind. For example: Is a mind just a brain? Can there be disembodied minds? What is conscious experience and how is it to be studied? Is

artificial intelligence possible? The other major theme of this course is the possible motives for human action. For example: Can people act without intentions? Can they have intentions without free will? What influence do environmental, genetic, and societal factors have on their actions?

NOTE: Students who have received credit for PHIL 225 may not take this course for credit.

PHIL 232 *Introduction to Ethics* (3 credits)

Philosophical discussions of ethics have both practical significance (What should one do?) and theoretical interest (What does it mean to say "That's the right thing to do"?). In this course, students are introduced to some representative approaches to ethical thought and action. General questions about the nature of ethical reasoning are also considered. For example: Are there objective ethical truths or are ethical judgements merely relative to social norms? An effort is made to incorporate those ethical issues which are of specific importance to contemporary society.

NOTE: Students who have received credit for PHIL 232 may not take this course for credit.

PHIL 233 *Applied Ethics: Moral Sensitivity and Human Well-Being* (3 credits)

This course focuses on ethical theory and its application to contemporary issues. The course covers central ethical theories such as virtue ethics (Aristotle), deontology (Kant), and utilitarianism (Mill). It applies these theories to contemporary moral issues such as abortion, consumerism, the use of drugs in the pursuit of happiness, and the rationing of health-care resources.

NOTE: Students who have received credit for PHIZ 233 or for this topic under a PHIL 298 or PHIZ 298 number may not take this course for credit.

PHIL 234 *Business Ethics* (3 credits)

The purpose of this course is to elucidate the key ethical notions with reference to the business world. The intention is to make students aware of situations in which ethical implications arise, rather than to impose specific rules.

NOTE: Students who have received credit for PHIL 242 may not take this course for credit.

PHIL 235 *Biomedical Ethics* (3 credits)

Bioethics is an interdisciplinary subject that overlaps areas of medicine, law, and philosophical ethics. This course is primarily concerned with contemporary biomedical debates, many of which are of current social and political significance: euthanasia and physician-assisted suicide, patients' rights, animal experimentation, organ donation and transplantation, palliative care, abortion, genetic engineering, and new reproductive technologies.

NOTE: Students who have received credit for PHIZ 235 may not take this course for credit.

PHIL 255 *Philosophy of Leisure* (3 credits)

This course examines philosophical problems relating to such issues as leisure, recreation,

labour, time, and fulfilment. The aim is to stimulate the student to think critically about the goals of individuals and of society as they concern these issues. The course is of interest to students in Therapeutic Recreation and Leisure Sciences and to others interested in the problems of using free time to best advantage.

PHIL 260 *Presocratics and Plato*
(3 credits)

This course is a critical study of Western philosophy from the seventh to the fourth centuries BC, including the Presocratics and Plato.

PHIL 261 *Aristotle and Hellenistic Philosophy* (3 credits)

Prerequisite: PHIL 260, or permission of the Department. This course is a critical study of Western philosophy from the fourth century BC to the fourth century AD, including that of Aristotle, the Skeptics, Stoics, Epicureans, and Neoplatonists.

PHIL 263 *Introduction to Epistemology*
(3 credits)

An introduction to the basic concepts and problems in epistemology, including belief, knowledge, scepticism, perception, and intentionality.

PHIL 265 *Introduction to Metaphysics*
(3 credits)

Metaphysics is the philosophical study of the ultimate nature of reality. In other words, it considers the question "What is there?" in several areas of study. For example: Are there minds? It seems so, but perhaps there are merely brains. Is there time? Not in the everyday sense of watches and clocks, but independently of humans. Do objective moral values exist or are they made up? Is there a God and, if so, what is that God like? An effort is made to relate these and other philosophical speculations to contemporary science, and, as well, to indicate the ways in which metaphysics is distinct from science.

PHIL 266 *Introduction to Philosophy of Religion* (3 credits)

There is a long philosophical tradition concerned with the existence of God. In this course, various proofs for God's existence are discussed and evaluated, as are a number of other issues. For example: How does the existence of evil affect one's views about God and God's nature? What is the status of miracles? What is religious experience and the nature of religious faith? How is one to understand religious language?

PHIL 275 *From Modern to Postmodern: Philosophical Thought and Cultural Critique* (3 credits)

This course focuses on key developments in modern and postmodern philosophy and their cultural influences. The course provides an introduction to philosophers (such as Kant, Nietzsche, and Foucault) and philosophical movements (such as empiricism, existentialism, and post-structuralism) of the modern era. It also introduces

students to the tremendous influence that philosophical theory has had on the arts, on social and political movements, and on virtually every field of study in the humanities and social sciences.

NOTE: Students who have received credit for PHIL 275 or for this topic under a PHIL 298 or PHIL 298 number may not take this course for credit.

PHIL 285 *Non-Western Philosophy*
(3 credits)

This course introduces the student to the philosophical activities of non-Western cultures. The particular focus differs from year to year.

PHIL 298 *Introductory Topics in Philosophy* (3 credits)

PHIL 299 *Introductory Topics in Philosophy* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHIL 314 *Intermediate Logic: Metatheory*
(3 credits)

Prerequisite: PHIL 214, or permission of the Department. This course presents the basic concepts of metalogic, including mathematical induction, soundness and completeness, decidability. *NOTE: Students who have received credit for PHIL 323 may not take this course for credit.*

PHIL 315 *Intermediate Logic: Themes and Problems* (3 credits)

Prerequisite: PHIL 214, or permission of the Department. The subject of this course varies from offering to offering among the following possible studies: modal logic, probabilistic logic, many-valued logic, relevance logic, and historical themes in logic.

NOTE: Students who have received credit for PHIL 321 may not take this course for credit.

PHIL 318 *Philosophy of Biology* (3 credits)

Prerequisite: PHIL 220, or permission of the Department. This course examines a variety of philosophical issues in biology. Topics covered may include: fitness, function, units of selection, the nature of species, reductionism, biological explanation of human behaviour and the ethical and epistemological consequences of evolutionary theory.

PHIL 324 *Philosophy of Social Science*
(3 credits)

Prerequisite: Three credits in Philosophy or 12 credits in a social science department, or permission of the Department. Philosophical examination of the structure and methodology of the social sciences.

NOTE: Students who have received credit for PHIL 346 may not take this course for credit.

PHIL 325 *Minds, Brains and Machines*
(3 credits)

Prerequisite: PHIL 226, or permission of the

Department. An examination of the computer model of the mind by consideration of the classical computationalist account and its problems, together with some attention to the connectionist alternative.

PHIL 327 *Artificial Intelligence* (3 credits)
Prerequisite: Three credits in Philosophy or Computer Science. The purpose of this course is to explore the analogy between mental activity and the operation of computers or "electronic brains", with a view to answering the question: Can machines think? Such topics as the following are treated: the concept of the Turing machine; the Turing test of intelligence; the functionalist theory of the mind; the nature of creativity; and the alleged implications of Gödel's incompleteness theorem.
NOTE: Students who have received credit for PHIL 354 may not take this course for credit.

PHIL 328 *Conceptual Revolutions in Science: Space and Time* (3 credits)
This course studies the philosophical implications of major scientific revolutions in our understanding of space, time and gravity. Examples of such revolutions may include the Newtonian revolution and Einstein's theories of relativity.

PHIL 329 *Conceptual Revolutions in Science: Quantum Theory* (3 credits)
This course examines the philosophical implications of quantum revolution. Topics covered may include the fundamental concepts of quantum mechanics, quantum nonlocality, Schrödinger's Cat (the measurement problem), and quantum field theory.

PHIL 330 *Contemporary Ethical Theory* (3 credits)
Prerequisite: PHIL 232 or 233 or 234 or 235, or permission of the Department. This course provides an in-depth examination of the foundations of contemporary ethical theories such as deontology, utilitarianism, virtue theory, feminist ethics, and narrative ethics.
NOTE: Students who have received credit for PHIL 330 or for this topic under a PHIL 398 or PHIL 398 number may not take this course for credit.

PHIL 333 *Philosophical Ideas in Literature* (3 credits)
Prerequisite: Three credits in Philosophy, or permission of the Department. An approach to philosophical ideas in literature through a comparison of authors. This could involve authors from different historical time frames, and different cultural world views, or elaborate different perspectives of a single author.

PHIL 339 *Aesthetics* (3 credits)
Prerequisite: Three credits in Philosophy, or permission of the Department. A survey of classical aesthetic theory in Western philosophy,

with particular attention to major developments in the modern and contemporary periods.
NOTE: Students who have received credit for PHIL 353 may not take this course for credit.

PHIL 342 *Political Philosophy* (3 credits)
Prerequisite: Three credits in Philosophy or Political Science, or permission of the Department. This course provides an historical introduction to and critical analysis of political-philosophical concepts. These concepts may include tolerance, violence, separatism, racism, and nationalism.

PHIL 343 *Philosophy of Law: General Jurisprudence* (3 credits)
A philosophical study of natural law, legal positivist, and legal realist replies to the question of what law is. Contemporary and classical replies are criticized and are applied to cases. The associated issues of legal moralism, legal justice, legal obligation and its limits, and legal reasoning are treated.
NOTE: Students who have received credit for PHIL 357 may not take this course for credit.

PHIL 344 *The Philosophy of Liberalism* (3 credits)
In this course, the student examines several perspectives from which the problem of the relation between law and morality may be treated. Conflicting concepts of law, morality, and the relation of the individual to society are discussed. The problem of authority is examined in relation to issues of civil liberties, civil rights, and the social basis of legal conflicts.

PHIL 345 *Legal Philosophy: Legal Rights and Duties* (3 credits)
A philosophical study of the nature, sources, and functions of rights and duties. Attention is given to the particular rights associated with contract and property, and their abuse; to duties arising by law alone; to excuses and justifications for failure to fulfil duties; and to enforcement, punishment, and compromise.
NOTE: Students who have received credit for PHIL 358 may not take this course for credit.

PHIL 352 *Philosophy of History* (3 credits)
Prerequisite: Three credits in History or Philosophy, or permission of the Department. An analysis of the nature of historical knowledge and explanation is followed by a study of classical and contemporary attempts to elucidate the meaning of history. Authors discussed include Augustine, Vico, Kant, Hegel, Marx, Spengler, Popper, Toynbee, Arendt.

PHIL 356 *Philosophy of Education* (3 credits)
An examination of philosophical principles underlying educational theories and of the problems arising from the practical implementation of those theories.
NOTE: Students who have received credit for PHIL 349 may not take this course for credit.

PHIL 360 *Rationalism* (3 credits)
Prerequisite: Twelve credits in Philosophy including PHIL 260 and 261, or permission of the Depart-

ment. This course is a critical study of the work of Descartes, Spinoza, and Leibniz, covering metaphysical, ethical and epistemological issues.

PHIL 361 *Empiricism* (3 credits)
Prerequisite: Twelve credits in Philosophy including PHIL 260 and 261, or permission of the Department. This course is a critical study of central aspects of the work of Locke, Berkeley and Hume on a variety of philosophical issues.

PHIL 362 *Medieval Philosophy I: Augustine to Abelard* (3 credits)
Prerequisite: PHIL 260 and 261, or permission of the Department. This course is a critical study of Western philosophy from the fourth to the twelfth centuries, including such philosophers as Augustine, Boethius, Eriugena, Abelard, Anselm, Maimonides, Avicenna, Averroes.

PHIL 363 *Medieval Philosophy II: Bonaventure to Buridan* (3 credits)
Prerequisite: PHIL 260, 261, 362, or permission of the Department. This course is a critical study of Western philosophy from the thirteenth to the sixteenth centuries, including the study of such philosophers as Bonaventure, Aquinas, Scotus, Ockham, Cusa, Buridan, and of Spanish "second scholasticism".

PHIL 371 *Philosophy of Feminism* (3 credits)
Prerequisite: PHIL 232 and 263, or permission of the Department. This course provides an introduction to some of the central issues in contemporary philosophy of feminism. The key arguments in feminist epistemology, feminist ethics, and sex and gender studies are discussed from a variety of perspectives.
NOTE: Students who have received credit for PHIL 247 may not take this course for credit.

PHIL 377 *Twentieth Century Continental Philosophy* (3 credits)
Prerequisite: Six credits in Philosophy, or permission of the Department. An examination of twentieth century French and German philosophy. Philosophers examined may include Husserl, Heidegger, Merleau-Ponty, Foucault, Derrida, Habermas or others.
NOTE: Students who have received credit for PHIL 313 or 376 may not take this course for credit.

PHIL 378 *American Philosophy* (3 credits)
Prerequisite: Six credits in Philosophy, or permission of the Department. An analysis of some classical American pragmatists, such as Peirce, Dewey, James and C.I. Lewis, together with exponents of contemporary neo-pragmatism, such as Putnam, Rorty and Quine.
NOTE: Students who have received credit for PHIL 313 or 376 may not take this course for credit.

PHIL 385 *Marxism* (3 credits)
A critical analysis of the ideas of Marx and their modern development.
NOTE: Students who have received credit for PHIL 335 may not take this course for credit.

PHIL 387 *Existentialism* (3 credits)
This course is designed to acquaint the student with the fundamentals of the existentialist movement as a philosophical perspective. Philosophers considered may include Kierkegaard, Nietzsche, Heidegger, Sartre, Merleau-Ponty, Jaspers, Marcel and Berdyaev.
NOTE: Students who have received credit for PHIL 312 or 386 may not take this course for credit.

PHIL 398 *Intermediate Special Topics in Philosophy* (3 credits)

PHIL 399 *Intermediate Special Topics in Philosophy* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHIL 414 *Advanced Topics in Logic* (3 credits)
Prerequisite: PHIL 314, or permission of the Department. This course will present the fundamentals of an advanced topic in logic.
NOTE: Students who have received credit for PHIL 422 may not take this course for credit.

PHIL 416 *Philosophy of Language* (3 credits)
Prerequisite: Twelve credits in Philosophy among which is required PHIL 216, or permission of the Department. Advanced study of a central problem in recent philosophy of language.

PHIL 420 *Advanced Philosophy of Science: Scientific Explanation and Theory Change* (3 credits)
Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course provides an in-depth study of the justification and explanatory power of scientific theories and the rationality of theory change in science.
NOTE: Students who have received credit for PHIL 421 may not take this course for credit.

PHIL 422 *Advanced Philosophy of Science: Scientific Realism* (3 credits)
Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course provides an in-depth study of contemporary debates concerning realism and anti-realism. For instance, it examines the status of unobservable entities such as quarks, genes, and the Super-Ego.
NOTE: Students who have received credit for PHIL 421 may not take this course for credit.

PHIL 425 *Philosophy of Mind: Cognitive Science* (3 credits)

Prerequisite: PHIL 325, or permission of the Department. An interdisciplinary study which combines the philosophical study of mind with current research in psychology, neuro-science, linguistics, and computer science.

NOTE: Students from related disciplines are welcome, and should consult the instructor concerning prerequisites.

NOTE: Students who have received credit for PHIL 426 may not take this course for credit.

PHIL 430 *Advanced Studies in Ethics* (3 credits)

Prerequisite: PHIL 232 or 330, or permission of the Department. A critical analysis of leading ethical theories from Moore to the present. Special attention is given to the naturalistic fallacy, the reducibility of normative statements, ethical reasoning, and the relation of ethics to psychology and sociology.

NOTE: Students who have received credit for PHIL 456 may not take this course for credit.

PHIL 463 *Honours Seminar in Epistemology* (3 credits)

Prerequisite: PHIL 263 and 12 credits in Philosophy, or permission of the Department. Intensive study of major contemporary issues in the theory of knowledge.

NOTE: Students who have received credit for PHIL 460 may not take this course for credit.

PHIL 465 *Honours Seminar in Metaphysics* (3 credits)

Prerequisite: PHIL 265 and 12 credits in Philosophy, or permission of the Department. Intensive study of major contemporary issues in metaphysics.

NOTE: Students who have received credit for PHIL 460 may not take this course for credit.

PHIL 471 *Advanced Topics in Feminist Theory* (3 credits)

Prerequisite: PHIL 371, or permission of the Department. An examination of recent issues in one of feminist ethics, epistemology or metaphysics. Subject will vary from year to year.

PHIL 474 *Nineteenth-Century Philosophy* (6 credits)

Prerequisite: Six credits in Philosophy, or permission of the Department. An examination of some of the main currents of post-Kantian philosophy. Hegel and the post-Hegelians, the romantic reaction, positivism, and pragmatism.

NOTE: Students who have received credit for PHIL 477 may not take this course for credit.

PHIL 480 *Plato* (3 credits)

Prerequisite: Twelve credits in Philosophy among which is required PHIL 260 and 261, or permission of the Department. An analysis of some of the central themes in the major dialogues of Plato.

PHIL 481 *Aristotle* (3 credits)

Prerequisite: Twelve credits in Philosophy among which is required PHIL 260 and 261, or permission of the Department. An analysis of the central themes in selected passages from the major works of Aristotle.

PHIL 485 *Kant* (6 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. An intensive study of Kant's *Critique of Pure Reason* and related works.

PHIL 486 *Hegel* (3 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course is an analysis of selected themes from Hegel's works.

PHIL 487 *Early Analytic Philosophy* (3 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course investigates selected philosophical problems as they arise in the writings of such early analytic philosophers as Moore, Russell, Ayer, Carnap, and the early Wittgenstein.

NOTE: Students who have received credit for PHIL 467 may not take this course for credit.

PHIL 488 *Contemporary Analytic Philosophy* (3 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course investigates selected philosophical problems as they arise in the writings of such analytic philosophers as the later Wittgenstein, Quine, Ryle, Wisdom, Austin, and others.

NOTE: Students who have received credit for PHIL 468 may not take this course for credit.

PHIL 489 *Phenomenology* (3 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. This course treats the origins and development of phenomenology from Brentano and Meinong through the different stages of Husserl's writings. The influence of the phenomenological movement on contemporary developments in the social sciences and humanities is discussed. Actual topics are determined by the student's areas of interest and academic qualifications.

NOTE: Students who have received credit for PHIL 449 may not take this course for credit.

PHIL 495 *Honours Essay* (3 credits)

Prerequisite: Enrolment in Honours Philosophy; 30 credits in Philosophy. With permission of the Department, an Honours student may arrange a tutorial program with a faculty member culminating in a research project not exceeding 40 pages.

PHIL 496 *Tutorial in Philosophy* (3 credits)

Prerequisite: Permission of the Department. This is an opportunity to carry out a personal project under the supervision of a Faculty member. An intensive reading program is undertaken in the

student's area of special interest. Tutorials may be arranged with any Faculty member, and the student must make these arrangements and obtain *written* permission in advance of registration. *NOTE: Students who have received credit for PHIL 471 may take this tutorial for credit provided the subject matter is different.*

PHIL 497 *Tutorial in Philosophy* (3 credits)
Prerequisite: Permission of the Department. See PHIL 496 for description.

NOTE: Students who have received credit for PHIL 472 and/or 496 may take this tutorial for credit provided the subject matter is different.

PHIL 498 *Advanced Topics in Philosophy*
(3 credits)

PHIL 499 *Advanced Topics in Philosophy*
(6 credits)

Prerequisite: Twelve credits in Philosophy, or permission of the Department. Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.230 PHYSICS

Faculty	Chair MARIANA FRANK, Professor	Associate Professor of Physics and Chemistry GILLES H. PESLHERBE
	Professors BARRY FRANK CALVIN S. KALMAN SUSHIL K. MISRA PANAGIOTIS VASILOPOULOS TRUONG VO-VAN	Assistant Professors LASZLO KALMAN VALTER ZAZUBOVICH
	Associate Professors RAMESH C. SHARMA JOSEPH SHIN	
Location	Loyola Campus Richard J. Renaud Science Complex, Room: SP 367 514-848-2424 ext. 3270	
Department Objectives	Breakthroughs in physics have revolutionized thinking about the fundamentals of matter, motion, and energy. Physics is the study of these fundamentals. The Physics Department is committed to preparing students for careers or advanced study in the theoretical, applied, and biological aspects of physics. Students in the co-op program gain valuable job experience and discover the career opportunities open to them in addition to regular course work.	
Programs	<p>Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).</p> <p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p> <div><div><div>45 Core Program</div><div>6 MAST 218³, 219³</div><div>36 PHYS 232³, 235³, 236³, 245³, 252³, 253³, 334³, 335³, 345³, 354³, 367³, 377³</div><div>3 PHYS 291¹, 293¹, 394¹</div></div><div><div>66 BSc Specialization in Physics <i>Option A: Pure/Computational Physics</i></div><div>45 Core Program</div><div>3 PHYS 358³ or 370³</div><div>12 PHYS 435³, 436³, 440³, 497³</div><div>6 Chosen from PHYS 290² and 297¹, 355³, 358³, 370³, 458³, 466³, 468³, 470³, 478³, 488³</div></div><div><div>66 BSc Specialization in Physics <i>Option B: Biophysics</i></div><div>45 Core Program</div></div></div> <div><div>9 BIOL 261³; CHEM 271^{3*}; PHYS 497³</div><div>12 Chosen from BIOL 367³, 469³; CHEM 235³, 335³, 431³, 471³, 475³, 495³; EXCI 351³</div><div><i>*CHEM 271 requires prerequisite CHEM 221 or equivalent previously, and CHEM 222 previously or concurrently.</i></div></div> <div><div>48 BSc Major in Physics</div><div>45 Core Program</div><div>3 PHYS 358³ or 370³</div><div>Students in the Major program may replace PHYS 345³ with PHYS 355³</div></div>	

PHYSICS CO-OPERATIVE PROGRAM

Director
SUSHIL K. MISRA, *Professor*

The Physics Co-operative program is offered to students who are enrolled in the BSc Specialization programs in Physics. Students interested in applying for the Physics co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is very similar to that of the regular programs, with some specific recommendations for courses to improve the students' job skills. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format. Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Physics co-op committee, which includes the student's advisors. Please refer to §24 for the schedule of Study and Work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PHYS 200 *From Particles to Galaxies* (3 credits)

This course covers all the major topics in physics including Galileo's role in science, the Newtonian synthesis, optics radiation and absorption of heat, relativity, quantum mechanics, astrophysics and cosmology at a level that a non-science student can grasp. Students in this course are not required to do any mathematical problem solving.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

NOTE: Students who have received credit for this topic under a PHYS 298 or PHYZ 298 number may not take this course for credit.

PHYS 204 *Mechanics* (3 credits)

Prerequisite: MATH 203 or equivalent, previously or concurrently. Kinematics, Newton's laws of motion. Statics, dynamics. Conservation of momentum and energy. Rotational motion. Periodic motion. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration. See PHYS 224 for laboratory associated with this course.

PHYS 205 *Electricity and Magnetism* (3 credits)

Prerequisite: MATH 203; PHYS 204 or equivalent. Electrical charge and Coulomb's law. Electrical field and potential. Capacity, steady state, and transient currents. Electromagnetic induction and alternating currents. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration. See PHYS 225 for laboratory associated with this course.

PHYS 206 *Waves and Modern Physics* (3 credits)

Prerequisite: PHYS 204 or equivalent. Simple harmonic motion. Wave propagation. Superposition. Stationary waves. Doppler effect. Interference. Diffraction. Photoelectric effect. Compton effect. Bohr's atom. Radioactivity, fission, fusion. Lectures only.

NOTE: Students in programs leading to the BSc

degree may not take this course for credit to be applied to their program of concentration. See PHYS 226 for laboratory associated with this course.

PHYS 210 *Discoveries in Physics* (6 credits)

A non-mathematical course in physics specifically designed for students who have had little or no experience in physics. This course traces the fundamental ideas from which modern physics has emerged, and attempts to develop insights into the understanding of natural phenomena. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit.

PHYS 224 *Introductory Experimental Mechanics* (1 credit)

Prerequisite: PHYS 204 previously or concurrently, or permission of the Department. This laboratory course covers fundamental experiments in classical mechanics. Experiments include resolution of forces, centrifugal force and conservation of energy, pendulums. Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 225 *Introductory Experimental Electricity* (1 credit)

Prerequisite: PHYS 205 previously or concurrently, or permission of the Department. This laboratory course covers fundamental experiments in electricity. Experiments include Kirchhoff's law, resistors in series and parallel, oscilloscope, induction, alternating current. Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 226 *Introductory Experimental Waves and Modern Physics* (1 credit)

Prerequisite: PHYS 206 previously or concurrently, or permission of the Department. This laboratory course covers the fundamental experiments in waves and modern physics. Experiments include spectrometer measurements. Newton's rings and measurements involving radioactivity.

Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 232 Theoretical Physics I (3 credits)

Prerequisite: MAST 218 previously or concurrently. First-order differential equations, linear and separable equations, integrating factors, applications. Second-order linear differential equations. Fundamental solutions, linear independence, Wronskian. Nonhomogeneous equations, general solution, method of undetermined coefficients, variation of parameters, applications. Power-series solutions of differential equations, examples. Systems of first-order linear equations. Review of linear algebra, diagonalization of matrices, eigenvalues. Lectures only.

PHYS 235 Object-Oriented Programming and Applications (3 credits)

Prerequisite: MATH 203, 204. Introduction to problem solving with computers; programming. Basic elements of an object-oriented language; basic data types, objects, expressions, simple programs. Control structures; library functions, one- and two-dimensional arrays. Introduction to mathematics software (Maple and/or Mathematica) and to programming languages (C/C++ and/or Fortran 77). The material is illustrated with simple examples from physics. *NOTE: Students may replace this course with COMP 248.*

NOTE: Students who have received credit for COMP 248 or PHYS 233 may not take this course for credit.

PHYS 236 Numerical Analysis in Physics (3 credits)

Prerequisite: PHYS 235 or COMP 248. Basic numerical analysis, symbolic and numerical computation and programming with a computer language and/or mathematics software program, curve fitting. Numerical solutions to linear and nonlinear ordinary and partial differential equations, difference equations. Gaussian elimination, LU decomposition, least-square approximation, linear systems of equations. Numerical differentiation and integration.

NOTE: Students may replace this course with MAST 334.

NOTE: Students who have received credit for MAST 334 may not take this course for credit.

PHYS 245 Classical Mechanics (3 credits)

Prerequisite: MATH 204, 205 or equivalent. Statics of rigid bodies, work and potential functions, motion in uniform field. Particle motion in an accelerated frame, rotation coordinate systems, motion in a resisting medium, small oscillations, damped (harmonic) motion, motion under central forces, mechanics of a rigid body, dynamics of systems of particles, motion of rigid bodies in three dimensions, elements of Lagrangian mechanics. Lectures only. *NOTE: See PHYS 291 for laboratory associated*

with this course.

NOTE: Students who have received credit for PHYS 243 or 244 may not take this course for credit.

PHYS 252 Optics (3 credits)

Prerequisite: PHYS 206. Wave equation, phasors, EM waves, linear, circular and elliptical polarization, polariscope, Malus' law, dichroism, polaroid, polarizing Prism, quarter and half wave plates, wave superposition, interference, Young's double slit experiment, Michelson interferometer, reflectance and transmittance of thin films, interferometers, dispersion, elements of Fourier analysis, diffraction, single slit diffraction, double slit, Fraunhofer and Fresnel limits, diffraction grating, Fresnel diffraction, instruments, introduction to lasers.

NOTE: Students who have received credit for PHYS 352 may not take this course for credit.

PHYS 253 Electricity and Magnetism I (3 credits)

Prerequisite: PHYS 205 or equivalent; MAST 218 or equivalent, previously or concurrently. Electrostatics, Gauss' law, electric potential, curl and divergence of fields, capacitance, RC circuits, Laplace's equation, Legendre equation, method of images, multipole expansion, dielectrics, polarization, dipole moments, electric displacement. *NOTE: See PHYS 293 for laboratory associated with this course.*

PHYS 270 Introduction to Energy and Environment (3 credits)

This course is designed for students who have little or no background in physics. Topics covered include relationship of physics to environment and energy. Concept and definition of work and energy. Interaction of people and inanimate objects with the environment. Heat and chemical energy. Electromagnetic and nuclear energy. Conservation of energy — how it affects everyday life. Sources of energy used on earth. Solar energy. Production of wind power, water power, solar cells from sun's energy, biological uses, biopower. Lectures only. *NOTE: Students in programs leading to the BSc degree may not take this course for credit.*

PHYS 273 Energy and Environment (3 credits)

Prerequisite: PHYS 270, or six credits in Cegep Physics, or equivalent. Nuclear energy stored in the earth. Geothermal energy. Biological energy stored in the earth. Second law of thermodynamics. Entropy. Food energy. Home heating and cooling. Solar heating. Transportation of people, goods, and energy. Recycling materials. Resource conservation and humanity's ability to change — need for a conservation ethic, need for alternate energy sources, need for public knowledge. Lectures only.

PHYS 290 Experimental Electronics (2 credits)

Prerequisite: PHYS 205, 225 or equivalent. A practical laboratory course in electronics. This

course explores the usage of electronic measuring instruments and components. Experiments include power supplies, transistor amplifiers, operational amplifiers, oscillators, audio and radio frequency amplifiers.

NOTE: Students who have received credit for PHYS 295 and 296 may not take this course for credit.

PHYS 291 *Experimental Mechanics I*
(1 credit)

Prerequisite: PHYS 245 previously or concurrently. A laboratory course in mechanics. Experiments include pendulum, coefficient of restitution, centrifugal force, rotational inertia, inelastic impact.

PHYS 292 *Experimental Mechanics II*
(1 credit)

Prerequisite: PHYS 291. A laboratory course in mechanics. Experiments include the use of air tracks to study acceleration, collisions, dissipative forces, and periodic motion. Other experiments include viscosity and surface tension of liquids.

PHYS 293 *Experimental Electricity and Magnetism I* (1 credit)

Prerequisite: PHYS 253 previously or concurrently. A laboratory course in electricity and magnetism. Experiments include motion of electrons in electric and magnetic fields, exponential relaxation, damped oscillations, resonance, non-linearity, negative resistance.

PHYS 294 *Experimental Electricity and Magnetism II* (1 credit)

Prerequisite: PHYS 293. A laboratory course in electricity and magnetism. Experiments include the transistor, amplification and frequency response, transient response and negative feedback, positive feedback and oscillation, periodic structures.

PHYS 295 *Experimental Electronics I*
(2 credits)

A practical laboratory course in electronics. Experiments include resistors in series and parallel, voltmeter, Ohm's law, Kirchhoff's current and voltage laws, Ohmmeter, capacitor, inductor, transformer, rectifiers, voltage doubler, zener diode, power supplies.

NOTE: Students who have received credit for PHYS 290 may not take this course for credit.

PHYS 296 *Experimental Electronics II*
(2 credits)

Prerequisite: PHYS 295. A practical laboratory course in electronics. Experiments include oscilloscope, biasing of bipolar transistors, transistor amplifiers, voltage and current regulators, field-effect transistor, oscillators, operational amplifier circuits, audio amplifier, I-F transformer, limiter, amplitude and frequency modulation.

NOTE: Students who have received credit for PHYS 290 may not take this course for credit.

PHYS 297 *Experimental Optics* (1 credit)

Prerequisite: PHYS 252 previously or concurrently. An experimental course in optics. Experi-

ments include diffraction, optical instruments, resonance, and various experiments using lasers. Laboratory only, 10 experiments.

NOTE: Students who have received credit for PHYS 392 may not take this course for credit.

PHYS 298 *Selected Topics in Physics*
(3 credits)

PHYS 299 *Selected Topics in Physics*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHYS 334 *Thermodynamics* (3 credits)

Prerequisite: PHYS 204 or equivalent; MAST 218, 219 or equivalent. Equation of state, ideal and real gases, thermodynamic surfaces, first law of thermodynamics, isothermal and adiabatic processes, the energy equation, liquefaction of gases, Carnot engine, second law of thermodynamics, entropy, third law, thermodynamic potentials, Clausius-Clapeyron equation, kinetic theory, equipartition of energy, Van der Waals' equation, transport phenomena, probability and thermal distributions. Lectures only.

NOTE: See PHYS 393 for laboratory associated with this course.

PHYS 335 *Theoretical Physics II* (3 credits)

Prerequisite: PHYS 232 or equivalent; MAST 219 previously or concurrently. Function of a complex variable, Fourier series, applications to a vibrating string, heat conduction, Fourier transform, Laplace transform, application to differential equations, delta functions, eigenvalue problems. Lectures only.

PHYS 345 *Advanced Classical Mechanics*
(3 credits)

Prerequisite: PHYS 232 or equivalent; PHYS 245 or equivalent; MAST 219. Survey of Newtonian mechanics; D'Alembert's principle and Lagrangian formulation; variational formulation and Hamilton's principle. Hamiltonian formulation, canonical transformations, Poisson brackets (connection to quantum mechanics); central force motion; planetary motion; scattering in a central field, dynamics of rigid bodies; Euler's equations; Hamilton-Jacobi theory, applications. Introduction to non-linear mechanics.

NOTE: Students who have received credit for PHYS 346 may not take this course for credit.

PHYS 354 *Electricity and Magnetism II*
(3 credits)

Prerequisite: PHYS 253 or equivalent; MAST 219 or equivalent, previously or concurrently. Biot-Savart Law, Ampere's law, divergence and curl of B, magnetic vector potential, magnetization, ferromagnetism, electromagnetic induction, motional EMF, inductance, transformer, ac-circuits, Maxwell's equations, the wave equation, polarization, reflection and transmission of em waves, rectangular wave guide, half-wave antenna. Lectures only.

NOTE: Students who have received credit for PHYS 254 may not take this course for credit.

PHYS 355 *Electronics* (3 credits)

Prerequisite: PHYS 358 recommended. Basic circuit analysis, network theorems, maximum power transfer, diode characteristics and circuits, power supply designs, transistor characteristics, incremental equivalent circuits, input and output impedance calculations, emitter follower and Darlington amplifiers, power amplifiers, dc stabilization and negative feedback, operational amplifiers, phase detection, frequency multiplier and special circuits. Lectures only.

NOTE: See PHYS 290 for laboratory associated with this course.

PHYS 358 *Solid State Physics I* (3 credits)

Prerequisite: PHYS 377 concurrently. Drude and Sommerfeld theory of metals, crystal lattices, reciprocal lattice, electron levels in periodic potentials, tight-binding method, semiclassical model of electron dynamics and of conduction in metals, relaxation-time approximation, Boltzmann equation, homo-geneous semiconductors, lattice vibrations, Fermi surface, cohesive energy.

NOTE: Students who have received credit for PHYS 353 may not take this course for credit.

PHYS 367 *Atomic Physics and Relativity* (3 credits)

Prerequisite: PHYS 205, 206 or equivalent; PHYS 354 recommended. *Relativity*: Lorentz transformations (revision), space-time and four-tensors, Minkowski map of space-time, four-velocity and four-acceleration, four-momentum, equivalence of mass and energy, angular momentum, three- and four-force, formal structure of Maxwell's theory, transformation of E and B, electromagnetic energy tensor. *Atomic Physics*: Introduction to the theory of blackbody radiation, the photoelectric effect, the Compton effect, De Broglie's postulate, Bohr's postulates, Bohr's and Sommerfeld's model, Schrödinger's quantum mechanics, Schrödinger's equation, Bohr's interpretation of the wave-functions, expectation values, time-independence, eigenfunctions and eigenvalues, energy quantization; solutions of the time-independent Schrödinger's equation free particle, and simple one-dimensional potentials.

NOTE: See PHYS 394 for laboratory associated with this course.

NOTE: Students who have received credit for PHYS 364 may not take this course for credit.

PHYS 370 *Nonlinear Dynamics/Chaos/ Fractals* (3 credits)

Prerequisite: PHYS 232 or equivalent. One-dimensional flows and maps, bifurcations, two-dimensional flows and maps, phase plane and limit cycles. Lorenz equations, strange attractors, chaos and nonlinearity, deterministic chaos, period doubling, experimental manifestations. Fractals, fractal dimension, examples of chaos and of fractals. Applications in physics, biology, chemistry, and engineering.

NOTE: Students who have received credit for this topic under a PHYS 498 number may not take this course for credit.

PHYS 377 *Quantum Mechanics I* (3 credits)

Prerequisite: PHYS 335, 345, 367. Schrödinger equation, probabilistic interpretation, normalization, expectation values, the uncertainty principle, stationary states, the free particle, infinite square well, the finite square well, the harmonic oscillator, the delta potential, the scattering matrix, vector spaces, postulates of quantum mechanics, operators and eigenvectors, compatible observables, the uncertainty relations, time-evolution of states, Ehrenfest's equations, the variational principle, nondegenerate time-independent perturbation theory, degenerate perturbation theory, spherical coordinates and the hydrogen atom, angular momentum, spin, addition of angular momenta.

NOTE: Students who have received credit for PHYS 477 may not take this course for credit.

PHYS 384 *Introduction to Astronomy* (3 credits)

Prerequisite: PHYS 205 or equivalent; MATH 205 or equivalent. The celestial sphere. The solar system. Celestial mechanics. Basic stellar characteristics. The galaxy — structure and content. Extragalactic objects. Lectures only.

PHYS 385 *Astrophysics* (3 credits)

Prerequisite: PHYS 384. The stars, stellar atmospheres, motion, interiors, and populations. Variable stars. Nebulae. Radio, X-ray, and infrared sources. The galaxy — population and dynamics. The extragalactic universe. Lectures only.

PHYS 390 *Experimental Digital Electronics* (3 credits)

Prerequisite: PHYS 296 or equivalent. Breadboarding digital circuits; gating a signal; truth tables; decade counter; decoders, demultiplexers, multiplexers and sequencers; light-emitting diodes and LED displays; tristate and open collector outputs; flip-flops, monostable multivibrators; semiconductor memories; registers, binary counters, arithmetic logic units. Laboratory only.

NOTE: Students who have received credit for PHYS 396 may not take this course for credit.

PHYS 391 *Introduction to Experimental Microprocessors and Assembly Language Programming* (3 credits)

Prerequisite: PHYS 235; COMP 212 or equivalent. Eight-bit microprocessor architecture: opcodes, addressing modes, memory mapped I/O, vectored interrupts, etc. The MS/DOS operating system, word processing, Motorola assembly language: pseudocodes, labels, subroutines, interrupt service routines, structured programming techniques. Cross assemblers, RS232 serial transmission of ASCII and binary data to remote computers. Laboratory only.

NOTE: Students who have received credit for PHYS 396 may not take this course for credit.

PHYS 392 *Experimental Medical Electronics* (3 credits)

Prerequisite: PHYS 290 or 296, or equivalent.

A laboratory course in the maintenance and use of medical instruments, including ECG monitor, electrocardiograph, cardio-tachometer, blood-pressure recorder, respiration-rate recorder, and clinical thermometer. The component parts of the instruments are studied first, and then the instruments are constructed and tested. Laboratory only. *NOTE: Students who have received credit for PHYS 397 may not take this course for credit.*

PHYS 393 *Experimental Thermodynamics*
(1 credit)

Prerequisite: PHYS 334 previously or concurrently. A laboratory course in thermodynamics. Experiments include Clement and Desormes' experiment, vaporization, specific heats, liquid nitrogen boiling. Laboratory only, 10 experiments. *NOTE: Students who have received credit for PHYS 494 may not take this course for credit.*

PHYS 394 *Experimental Atomic Physics*
(1 credit)

Prerequisite: PHYS 226 or equivalent, or permission of the Department. An experimental course in atomic physics. Experiments include the Frank-Hertz experiment, the Zeeman effect, mass spectrometer, and some X-ray work. Laboratory only, 10 experiments.

PHYS 398 *Selected Topics in Physics*
(3 credits)

PHYS 399 *Selected Topics in Physics*
(6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHYS 435 *Statistical Physics* (3 credits)

Prerequisite: PHYS 334, 367. Statistical concepts, probability, Gaussian probability distribution, statistical ensemble, macrostates and microstates, thermodynamic probability, statistical thermodynamics, reversible and irreversible processes, entropy, thermodynamic laws and statistical relations, partition functions, Maxwell's distributions, phase transformation, Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics, quantum statistics in classical limit, black-body radiation, conduction of electrons in metal, interacting particle system, lattice vibrations, virial coefficients, Weiss molecular field approximation. Lectures only.

PHYS 436 *Theoretical Physics III* (3 credits)

Prerequisite: PHYS 335 or equivalent. Partial differential equations, eigenfunction expansion and finite transforms, Laplace, Poisson, wave and diffusion equations, applications, special functions, boundary value problems, Sturm-Liouville theory, Bessel functions, Legendre and Hermite polynomials, spherical harmonics, Green's function and applications, perturbation theory, (variational theory). Lectures only. *NOTE: Students who have received credit for PHYS 336 may not take this course for credit.*

PHYS 440 *Computational Methods and Simulations in Physics* (3 credits)

Prerequisite: PHYS 232, 334, 377. The first part of the course fully develops the UNIX/Fortran/C code for problem solving through direct experience with problems in mechanics, electromagnetism, and quantum mechanics. Applications include finite square well, simple pendulum, charge distribution, phase space, anharmonic oscillator, vibrating string, etc. The second part of the course introduces the Monte Carlo and molecular dynamics methods, first-principles calculations for materials, electronic properties, electrodynamics and electrical circuit simulations, and biophysics simulations.

PHYS 458 *Advanced Electrodynamics*
(3 credits)

Prerequisite: PHYS 354, 436. Electrostatic boundary-value problem and Green's function, Maxwell's equation, energy-momentum tensor, guided waves, dielectric wave guides, fibre optics, radiation static field, multipole radiation, velocity and acceleration field, Larmor's formula, relativistic generalization, radiating systems, linear antenna, aperture in wave guide, Thomson scattering, bremsstrahlung, Abraham-Lorentz equation, Breit-Wigner formula, Green's function for Helmholtz's equation, Noether's theorem. Lectures only.

PHYS 466 *Nuclear Physics* (3 credits)

Prerequisite: PHYS 367; PHYS 377 previously or concurrently. Introduction, quantum mechanical properties of the nucleus, nuclear mass and shape, nuclear models, radioactivity, alpha, beta and gamma radiation, nuclear models, nuclear fission, parity violation, fundamental forces, strong and weak interaction, conservation laws, quark model and quantum chromodynamics. Lectures only.

PHYS 468 *Solid State Physics II* (3 credits)

Prerequisite: PHYS 358; PHYS 377 previously or concurrently. Review of electron levels in periodic potentials, various band-structure methods, Thomas-Fermi and Hartree-Fock theories, screening, anharmonic effects crystals, inhomogeneous semiconductors, p-n junctions, transistors. Dielectric properties of insulators, ferroelectric materials. Defects in crystals. Magnetic ordering, paramagnetism, diamagnetism, ferromagnetism, phase transitions, superconductivity. *NOTE: Students who have received credit for PHYS 467 may not take this course for credit.*

PHYS 470 *Nonlinear Waves* (3 credits)

Prerequisite: PHYS 335. Linear stability analysis and limitations, modulated waves and nonlinear dispersion relations. Korteweg-de Vries, sine-Gordon, and nonlinear Schrödinger equations. Hydro-dynamic, transmission-line, mechanical, lattice, and optical solitons. Applications in optical fibres, Josephson junction arrays. Inverse scattering method, conservation laws.

PHYS 478 *Quantum Mechanics II* (3 credits)

Prerequisite: PHYS 377. Particle states, classification of symmetry, parity, numerical solution

of Schrödinger's equation, WKB approximation, variational method, alpha decay probability, time-dependent perturbation theory, systems of particles in one dimension, interacting particles, identical particles, Pauli exclusion Principle, Motion in three dimensions, hydrogen atom, angular momentum and spin, Pauli spin matrices, Dirac's relativistic wave equation.

PHYS 480 *Directed Readings in Theoretical Physics* (3 credits)

Prerequisite: Permission of the Department. A course for advanced students in which a special topic, selected in consultation with a faculty member, is studied in depth.

PHYS 488 *Lasers and Fibre-optics* (3 credits)

Prerequisite: PHYS 252, 354. Semiconductor physics, semiconductor sources, detectors, waveguides and fibres, optical communications, assorted topics in electro-optics.

NOTE: Students who have received credit for this topic under a PHYS 498 number may not take this course for credit.

PHYS 491 *Experimental Microprocessor Interfacing* (3 credits)

Prerequisite: PHYS 390; PHYS 391 or equivalent. Address decoding, multiplexing, and demultiplexing with TTL integrated circuits. Address decoding circuits, drivers, and receivers. Parallel, serial and non-TTL I/O. Breadboarding, wire-wrapping, and soldering techniques. The use of oscilloscopes, logic probes, and computers for circuit troubleshooting. Drawing schematic diagrams. Timing diagrams. Data sheets. Laboratory only.

PHYS 494 *Methods of Experimental Physics* (3 credits)

Prerequisite: PHYS 290, 293, 394 or equivalent, or permission of the Department. A supervised research project which may include experiments in nuclear physics, laser and fibre-optics, solid state physics, ultrasonics, or thermal physics. A technical report is required.

PHYS 495 *Experimental Nuclear Physics* (1 credit)

Prerequisite: PHYS 394; PHYS 466 previously or concurrently. A laboratory course in nuclear physics. Experiments include gamma- and beta-ray spectroscopy, nuclear magnetic resonance, half-life determination, nuclear activities. Laboratory only, 10 experiments.

PHYS 497 *Independent Study and Project* (3 credits)

Prerequisite: Permission of the Department. An independent studies course for advanced Specialization students in which a special topic in physics, biophysics, or applied physics is studied under the supervision of a faculty member. The student is required to write a report and give a brief presentation.

PHYS 498 *Advanced Topics in Physics* (3 credits)

PHYS 499 *Advanced Topics in Physics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.240

POLITICAL SCIENCE

Faculty	<p><i>Chair</i> PETER STOETT, <i>Associate Professor</i></p> <p><i>Professors</i> HAROLD R. CHORNEY MARCEL DANIS HORST HUTTER GUY LACHAPELLE DANIEL SALÉE</p> <p><i>Distinguished Professor Emeritus</i> HENRY P. HABIB</p> <p><i>Associate Professors</i> AXEL HUELSEMEYER BROOKE JEFFREY JAMES KELLY ANDRÉ LECOURS MICHAEL LIPSON JEAN-FRANÇOIS MAYER</p>	<p>CSABA NIKOLENYI MABEN POIRIER EVERETT M. PRICE NORRIN M. RIPSAN FRANCESCA SCALA JULIAN SCHOFIELD</p> <p><i>Assistant Professors</i> ANTOINE BILODEAU ELIZABETH A. BLOODGOOD GRAHAM DODDS MEBS KANJI EDWARD KING KIMBERLEY MANNING PATRIK MARIER AMY POTEETE LEANDER SCHNEIDER TRAVIS SMITH MARLENE SOKOLON</p>
Location	<p><i>Sir George Williams Campus</i> Hall Building, Room: H 1225-22 514-848-2424 ext. 2105</p>	
Department Objectives	<p>The Department of Political Science offers a wide range of courses and programs to acquaint students with the living complexity of contemporary government and politics. The curriculum provides the theoretical foundations, analytical skills, and research methods for understanding the construction of government policy as well as the underlying nature and purpose of political processes and institutions. The aim is to prepare well-rounded, concerned citizens for careers in the public service and the private sector, or for graduate or law school.</p>	
Programs	<p>The Department of Political Science offers the following programs of study: an Honours, a Major, and a Minor.</p> <p>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of 30 credits.</p> <p>Students must apply to the departmental Honours advisor for formal admission to either option of the Honours program. Applications are due by May 15 for September admission and by November 15 for January admission. The number of places available in the Political Science Honours program is limited, and admission to the program is highly competitive. Students must have a cumulative GPA of at least 3.5 to be eligible to apply. If admitted, they must maintain an annual GPA of at least 3.5 to graduate with Honours. In order to maintain Honours status, students must obtain approval for their programs from the Honours advisor each year, prior to registration.</p> <p>The program of courses leading to a Minor in Political Science consists of 24 credits in the Department. The Minor is designed to provide an opportunity for students to make a combination with a Specialization, a Major, or Honours in another discipline. A student's Minor will be arranged in consultation with the Department of Political Science so that it relates to courses in the Major area of study.</p> <p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p>	
	<p><i>Option A</i></p> <p>60 BA Honours in Political Science</p> <p>12 POLI 202³, 204³, 205³, 206³</p> <p>6 Chosen from POLI 364³, 371³, 373³, 384³</p> <p>6 Chosen from POLI 392³ and 393³; or 372⁶</p>	<p>33 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with a minimum of 12 credits at the 400 level</p> <p>3 POLI 496³ (<i>Honours Seminar</i>)</p>

- Option B*
- 60 BA Honours (Thesis) in Political Science**
- 12 POLI 202³, 204³, 205³, 206³
- 6 Chosen from POLI 364³, 371³, 373³, 384³
- 6 Chosen from POLI 392³ and 393³; or 372⁶
- 3 POLI 396³ (*Honours Tutorial*)
- 24 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with a minimum of nine credits at the 400 level
- 6 POLI 495⁶ (*Honours Thesis*)
- 3 POLI 496³ (*Honours Seminar*)

- 42 BA Major in Political Science**
- 12 POLI 202³, 204³, 205³, 206³
- 30 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with at least six credits at the 400 level
- 24 Minor in Political Science**
- 12 POLI 202³, 204³, 205³, 206³
- 12 Chosen from any of the five groups in Political Science. A minimum of nine credits must be taken at the 300 or 400 level.

Core Program

CORE PROGRAM

POLI 202	Introduction to Political Science (3 credits)	POLI 205	Introduction to International Politics (3 credits)
POLI 204	Introduction to Canadian Politics (3 credits)	POLI 206	Introduction to Western Political Theory (3 credits)
POLI 213	Contemporary Issues in Global Politics (3 credits)	POLI 329	American Foreign Policy (3 credits)
POLI 214	Human Rights: An Overview (3 credits)	POLI 332	Theories of International Relations (3 credits)
POLI 215	Global Politics (3 credits)	POLI 338	Foreign Policy Making and Diplomatic Relations (3 credits)
POLI 216	Introduction to the United Nations (3 credits)	POLI 342	Asia and Power Politics (3 credits)
POLI 302	International Security (3 credits)	POLI 388	Human Rights and International Justice (3 credits)
POLI 303	Globalization, Identity and the State (3 credits)	POLI 391	Middle East and Global Conflict (3 credits)
POLI 304	Theories of Foreign Policy Making (3 credits)	POLI 394	Globalization and Sustainable Development (3 credits)
POLI 305	International Political Economy (3 credits)	POLI 419	Strategic Studies (3 credits)
POLI 307	Regional Integration and the Nation State (3 credits)	POLI 421	Transnational Politics (3 credits)
POLI 311	International Public Law (3 credits)	POLI 422	Canadian Foreign Policy (3 credits)
POLI 312	Independent Study in International Politics (3 credits)	POLI 423	Peace Studies and Global Governance (3 credits)
POLI 315	International Organizations (3 credits)	POLI 486	Advanced Seminar in International Relations (3 credits)
POLI 214	Human Rights: An Overview (3 credits)	POLI 352	Comparative Urban Politics and Government (3 credits)
POLI 217	Comparing Democracies (3 credits)	POLI 366	Politics of Africa (3 credits)
POLI 301	Social Movements and Protest Politics (3 credits)	POLI 379	Politics of Latin America (3 credits)
POLI 310	Politics of the U.S. (3 credits)	POLI 380	Comparative Public Administration and Bureaucracy (3 credits)
POLI 313	Independent Study in Comparative Politics (3 credits)	POLI 395	Politics of the Middle East (3 credits)
POLI 319	European Politics and Government (3 credits)	POLI 424	India: State and Societal Relations (3 credits)
POLI 323	Politics of Eastern Europe (3 credits)	POLI 481	Issues in Western European Politics (3 credits)
POLI 326	Women, Ethics and the Law in Canada (3 credits)	POLI 482	State and Society in Asia (3 credits)
POLI 328	Public Policy and the Politics of Equality (3 credits)	POLI 483	State and Society in Latin America (3 credits)
POLI 333	Politics of Russia (3 credits)	POLI 484	Post-Communist Societies and States in Transition (3 credits)
POLI 335	Politics of China (3 credits)	POLI 485	Issues in Development and Democracy (3 credits)
POLI 336	Politics of South Asia (3 credits)	POLI 487	Advanced Seminar in Comparative Politics (3 credits)
POLI 337	Politics of Japan (3 credits)		
POLI 342	Asia and Power Politics (3 credits)		
POLI 344	Comparative Political Analysis (3 credits)		

<i>Group 3: Canadian and Quebec Politics</i>	POLI 211	Quebec Politics and Society/ La vie politique québécoise (3 credits)	POLI 351	Canadian Federalism (3 credits)
	POLI 308	Canadian Politics and Society (3 credits)	POLI 355	Nationalism: The Canadian Experience (3 credits)
	POLI 309	Women and Politics in Canada (3 credits)	POLI 356	Canadian Political Parties (3 credits)
	POLI 314	Independent Study in Canadian and Quebec Politics (3 credits)	POLI 363	Issues in Canadian Public Policy (3 credits)
	POLI 326	Women, Ethics and the Law in Canada (3 credits)	POLI 365	Canadian Public Administration (3 credits)
	POLI 328	Public Policy and the Politics of Equality (3 credits)	POLI 367	Quebec Public Administration (3 credits)
	POLI 349	Political and Social Theory and the City (3 credits)	POLI 438	Comparative Provincial Politics in Canada (3 credits)
	POLI 350	Canadian and Quebec Law (6 credits)	POLI 488	Advanced Seminar in Canadian and Quebec Politics (3 credits)
<i>Group 4: Public Policy and Administration</i>	POLI 212	Politics and Economy (3 credits)	POLI 362	Policy Analysis and Program Evaluation (3 credits)
	POLI 305	International Political Economy (3 credits)	POLI 363	Issues in Canadian Public Policy (3 credits)
	POLI 316	Independent Study in Public Policy and Administration (3 credits)	POLI 365	Canadian Public Administration (3 credits)
	POLI 320	Development of Western Legal Systems (3 credits)	POLI 367	Quebec Public Administration (3 credits)
	POLI 328	Public Policy and the Politics of Equality (3 credits)	POLI 380	Comparative Public Administration and Bureaucracy (3 credits)
	POLI 330	Principles of Public Administration (3 credits)	POLI 394	Globalization and Sustainable Development (3 credits)
	POLI 338	Foreign Policy Making and Diplomatic Relations (3 credits)	POLI 461	The State and Economic Life (3 credits)
	POLI 349	Political and Social Theory and the City (3 credits)	POLI 463	Government and Business in Canada (3 credits)
	POLI 352	Comparative Urban Politics and Government (3 credits)	POLI 480	Comparative Public Policy (3 credits)
	POLI 361	Government, Society and Public Purpose (3 credits)	POLI 489	Advanced Seminar in Public Policy and Evaluation (3 credits)
<i>Group 5: Political Theory</i>	POLI 317	Independent Study in Political Theory (3 credits)	POLI 386	Contemporary Liberalism and Its Critics (3 credits)
	POLI 326	Women, Ethics and the Law in Canada (3 credits)	POLI 389	Religion and Politics (3 credits)
	POLI 349	Political and Social Theory and the City (3 credits)	POLI 390	Ethics and Competing Political Perspectives (3 credits)
	POLI 361	Government, Society and Public Purpose (3 credits)	POLI 392	Survey and Research Design (3 credits)
	POLI 364	Hellenistic, Roman, Medieval Political Philosophy (3 credits)	POLI 393	Empirical Research Methods (3 credits)
	POLI 368	Media, Technology and Politics (3 credits)	POLI 401	The American Political Tradition (3 credits)
	POLI 371	Early Modern Political Philosophy (3 credits)	POLI 420	Contemporary French Political Thought (3 credits)
	POLI 372	Political Science and Scientific Method (6 credits)	POLI 433	Critics of Modernity (3 credits)
	POLI 373	Late Modern Political Philosophy (3 credits)	POLI 435	Marxist and Neo-Marxist Political Thought (3 credits)
	POLI 375	Nationalism: Origins, Operation, and Significance (3 credits)	POLI 461	The State and Economic Life (3 credits)
	POLI 384	Principles of Political Theory (3 credits)	POLI 471	Political Thought and Ideology in Canada (3 credits)
			POLI 490	Advanced Seminar in Political Theory (3 credits)

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.: Explanation of course numbers and the core program:

1. Political Science Honours, Major students should normally complete the 12-credit core program

in their first year of full-time equivalent studies. MEP and ECP students must consult an academic advisor regarding the completion of the 12-credit core.

2. Courses at the 200 and 300 level are open to all students in other departments and faculties.
NOTE: 200-level courses are introductory, 300-level courses require the ability to do independent research and to write analytical essays.
3. Courses at the 400 level are taught as seminars and are open to Political Science Honours students who have completed at least 30 credits, and to Political Science Major students who have completed at least 54 credits.

POLI 202 *Introduction to Political Science* (3 credits)

This course seeks to develop a broad basis from which to pursue further political inquiry. It offers an introductory examination of basic ideas regarding the state, power, authority, and systems of government. The course examines the diverse approaches to the specific study of political phenomena and provides a fundamental understanding of political concepts.

NOTE: Students who have received credit for POLI 200 or 201 or 203, or POLZ 202 may not take this course for credit.

POLI 204 *Introduction to Canadian Politics* (3 credits)

This course is a basic introduction to the fundamental issues of Canadian public life and the federal political system. It presents an overview of the constitution, institutions, political parties, electoral system, interest groups, and public opinion that represent the essential components of Canada's political culture and government.

NOTE: Students who have received credit for POLI 232 or 234 or 250 may not take this course for credit.

POLI 205 *Introduction to International Relations* (3 credits)

This course introduces the principal themes, terms, concepts, and debates in the contemporary study of international relations. It provides an historical analysis of global politics and international economy.

NOTE: Students who have received credit for POLI 207 or 208 or 210 may not take this course for credit.

POLI 206 *Introduction to Western Political Theory* (3 credits)

This course explores the foundations and basic principles of Western political theory in ancient Greece. It covers concepts such as democracy and oligarchy, justice and the good life by way of a careful reading of texts by Greek tragedians, historians, and philosophers. Texts studied in the course may include writings by Aeschylus or Sophocles and Thucydides, as well as Plato and Aristotle.

NOTE: Students who have received credit for POLI 270 or 271 may not take this course for credit.

POLI 209 *Public Security and Terrorism* (3 credits)

This course provides an overview of modern terrorism and its evolution, focusing on terrorist

movements, groups, and incidents in many parts of the world over time. Students gain an understanding of the theory behind terrorism, its roots, goals, and ideologies, as well as its relation to governments, the media, and the public.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 211 *Quebec Politics and Society/ La vie politique québécoise* (3 credits)

This course is a study of the changing party structure and political issues in Quebec and their relationship to constitutional, cultural, and economic factors.

On étudiera dans ce cours l'évolution structurelle des partis et des questions politiques au Québec en fonction de facteurs d'ordre constitutionnel, culturel et économique.

NOTE: Students who have received credit for POLI 353 may not take this course for credit.

NOTE: The course will be offered in both English and French on a rotational basis. Please consult the Undergraduate Class Schedule for details.

POLI 212 *Politics and Economy* (3 credits)

This course is a general introduction to the interaction between politics and economy. It focuses on the impact of international and national economic structures on domestic political systems.

POLI 213 *Contemporary Issues in Global Politics* (3 credits)

This course introduces students to major trends and issues in world politics, such as human rights, refugees, ethnic conflict, environmental degradation, migration, and the peacekeeping role of the U.N.

NOTE: Students who have received credit for POLZ 213 may not take this course for credit.

POLI 214 *Human Rights: An Overview* (3 credits)

This course introduces students to the historical origins of the concept of human rights; the international regime and the acceptance of several generations of rights such as civil and political rights, economic rights, group rights, and women's rights; the critiques of universalism and the problems of implementation of human rights.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 215 *Global Politics* (3 credits)
 This course introduces students to several theoretical perspectives related to global politics, and then examines current events. The focus is on conflict resolution, the impact of globalization, the roles of international organizations, and information technology.
NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 216 *Introduction to the United Nations* (3 credits)
 This course examines the operations and issues of the United Nations organization. It covers the operation of the Security Council and other components of the United Nations. It surveys micro-issues such as routine operations, the internal bureaucracy, the ethics of its procedures, and its historical background.
NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 217 *Comparing Democracies* (3 credits)
 This course introduces students to the field of comparative politics by examining the institutional structures of established advanced industrial democracies. Particular emphasis is placed on the study of constitutions; the legislative, executive, and the judicial branches of government; and the electoral and party systems.
NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 219 *Governance and Organized Crime* (3 credits)
 This course examines the history, legal processes and the role played by governmental security structures such as the police and the bureaucracy, as well as the international agencies that combat organized crime. To begin with, this course describes and defines organized crime and provides an overview of different theories and models explaining organized crime. Furthermore, the course focuses on certain specific issues such as drug trafficking, prostitution, racketeering, smuggling, and economic crimes. Different types of organized crime groups such as Asian gangs, the Mafia, and outlaw motorcycle gangs — the Hells Angels in particular — are also discussed. Finally, the course examines particular cases of terrorism and structures of governance and how they relate to organized crime.
NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 298 *Selected Topics in Political Science* (3 credits)

POLI 299 *Selected Topics in Political Science* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 301 *Social Movements and Protest Politics* (3 credits)
 This course surveys the politics of selected contemporary movements such as environmentalism, peace, human rights, and feminism. It also provides a comparative analysis of the politics of dissent.

POLI 302 *International Security* (3 credits)
 This course examines the causes of war and peace in the international system. It studies the impact on war and peace of such influences as cognitive psychology, identity, group decision-making, bureaucratic processes, regime types, conflict spirals, arms control, arms races, balance of power, hegemonic stability theory, trade interdependence, environment and non-renewable resources, and international institutions.
NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 303 *Globalization, Identity and the State* (3 credits)
 This course examines the impact of globalization on state sovereignty and state autonomy, citizenship, and the underlying social and political processes. It addresses the issue of the changing nature of the nation state, and of identity-based politics.

POLI 304 *Theories of Foreign Policy Making* (3 credits)
 This course explores the major international and domestic determinants of foreign policy. Principal topics include the influence on foreign policy of the international system, geography, leadership, regime-type, transnationalism, and non-governmental organizations. This course draws upon the experiences of a variety of Western democratic states.
NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 305 *International Political Economy* (3 credits)
 This course examines the processes and issues in the politics of international economic relations. Topics covered include the role of multinational corporations, the rise of trading blocs, and the international division of labour.
NOTE: Students who have received credit for POLI 305 may not take this course for credit.

POLI 307 *Regional Integration and the Nation State* (3 credits)
 This course studies international structural integration. Among the topics covered are: the dynamics of socio-political unification; theories of regionalism; supranational communities; common markets.

POLI 308 *Canadian Politics and Society* (3 credits)
 This course presents a comprehensive analysis of the major issues within the Canadian political

process and considers the formal and informal institutions within which these issues are addressed. The political system is studied within the context of federalism, the electoral system, political parties, interest groups, public opinion, and the Canadian political culture.

POLI 309 *Women and Politics in Canada*
(3 credits)

This course examines the role of women in Canadian politics at the federal, provincial, and local level. Historical, theoretical, and legal perspectives are examined and include the politics of racism; sexuality; community organizing; suffrage; and representation within formal political structures. It focuses on the diversity and development of the women's movement in Canada.

POLI 310 *Politics of the U.S.* (3 credits)

This course surveys the structures and dynamics that inform the contemporary American political process. In addition to studying the traditional governmental institutions, the course aims to provide a foundation for understanding and critically analysing public opinion, the media and elections, federalism, political parties and interest groups, civil rights and civil liberties, and current issues in public policy.

POLI 311 *International Public Law*
(3 credits)

This course explores the meaning, effectiveness, and potential of interstate law. Among the topics covered are: the source and development of international law; the role of the International Court of Justice; sovereignty, territory, and natural resources; human rights violations, the state and war crimes tribunals; and international environmental law.

POLI 312 *Independent Study in International Politics* (3 credits)

Prerequisite: Twenty-four credits or permission of the Department. This course permits individual study, with a selected faculty member, in a specialized area of international politics.

POLI 313 *Independent Study in Comparative Politics* (3 credits)

Prerequisite: Twenty-four credits or permission of the Department. This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

POLI 314 *Independent Study in Canadian and Quebec Politics* (3 credits)

Prerequisite: Twenty-four credits or permission of the Department. This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

POLI 315 *International Organizations*
(3 credits)

This course offers an overview of international institutions, including the League of Nations, the

United Nations and its agencies, and regional organizations. The course considers whether such institutions are gradually replacing the state as providers of security, and examines theoretical orientations toward international regimes.

POLI 316 *Independent Study in Public Policy and Administration*
(3 credits)

Prerequisite: Twenty-four credits or permission of the Department. This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

POLI 317 *Independent Study in Political Theory* (3 credits)

Prerequisite: Twenty-four credits or permission of the Department. This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

POLI 319 *European Politics and Government* (3 credits)

This course is a study of government and politics in selected European countries. It provides an analysis of political institutions, cultures, and processes.

POLI 320 *Development of Western Legal Systems* (3 credits)

This course is an overview of the major legal systems of the Western world, with special emphasis on the political decisions which influenced their growth and direction. It will study the development of Roman law, Romano-Germanic law, and English common law.

POLI 323 *Politics of Eastern Europe*
(3 credits)

This course studies the political process and institutions of the region, with a special focus on the recent transformation relating to economic problems, social structures, culture, and ethnic conflicts, as well as the role of governmental policies in domestic and foreign affairs.

POLI 326 *Women, Ethics and the Law in Canada* (3 credits)

The course provides an analysis of applied ethics to the study of women and the law in Canada. The course identifies and examines ethical problems addressed by feminist theorists that arise in the realm of public law. Diverse approaches to the study of ethics and the efficacy of legal moral imperatives will be assessed. Ethical issues examined include human rights, family law, pornography, abortion, and reproductive technologies.

NOTE: Students who have received credit for POLZ 326 may not take this course for credit.

POLI 328 *Public Policy and the Politics of Equality* (3 credits)

This course reviews theoretical debates about the role of the state and the individual, collective

and individual rights, integration, and the role of cultural diversity and identity. It examines selected policy demands of women, the poor, refugees, and other constituencies.

POLI 329 *American Foreign Policy*
(3 credits)

A course in the role of the United States in the world. The course considers the strategic position and superpower status of the U.S.A. through its foreign policy and its diplomatic relations with other countries.

POLI 330 *Principles of Public Administration* (3 credits)

This course examines the theory and practice of public administration in Canada. The nature of accountability in public sector environments is reviewed in order to study how policy is developed, implemented, and evaluated by bureaucracies, central agencies, and the legislative branches of government.

POLI 332 *Theories of International Relations* (3 credits)

This course is an introduction to the field of theories in international relations. It examines the development of knowledge from the classical paradigm to the most contemporary frames of analysis.

POLI 333 *Politics of Russia* (3 credits)

This course is a study of the government and politics of the old and the new Russia, including emerging political, social, and economic structures, conflicts, and issues.

POLI 335 *Politics of China* (3 credits)

This course focuses on political development of China. Topics include political mobilization, economic development, democracy, and the policy process.

POLI 336 *Politics of South Asia* (3 credits)

This course comparatively examines the political systems of South Asian countries in light of their socio-economic environment. Specific emphasis is placed on four countries — India, Pakistan, Bangladesh, and Sri Lanka. After a comprehensive study of the social and political structure of these countries, agrarian and industrial policies are evaluated.

POLI 337 *Politics of Japan* (3 credits)

This course focuses on the political development of Japan since the end of World War II. Emphasis is placed on Japanese modernization, post-industrial politics, national security and constitutional pacifism.

POLI 338 *Foreign Policy Making and Diplomatic Relations* (3 credits)

This course studies the substance, formulation, and implementation of foreign policy in selected countries. Special attention is paid to theoretical frameworks, inputs in decision-making, policy

evaluation, diplomatic establishment, diplomatic negotiation, treaty-making, and conference diplomacy.

POLI 342 *Asia and Power Politics*
(3 credits)

This course examines the politics of regional powers in Asia and explores the international relations of several Asian countries, in particular India, China, Japan, Indonesia, and Vietnam.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 344 *Comparative Political Analysis*
(3 credits)

This course deals with theoretical aspects of comparative politics. Topics include: terms and concepts of political analysis; theories of modernization and political development; dependency; corporatism, and state autonomy.

POLI 349 *Political and Social Theory and the City* (3 credits)

This course examines the theoretical and ideological aspects of city government in historical and normative perspective.

POLI 350 *Canadian and Quebec Law*
(6 credits)

This course is an introduction to Canadian and Quebec law. It emphasizes certain areas of criminal law, the Canadian Charter of Rights and Freedoms, and Quebec civil law. An analysis is undertaken of the criminal court structure and criminal procedure, legal constitutional rights; the civil court structure and civil court procedures.

POLI 351 *Canadian Federalism* (3 credits)

This course is a critical and analytical study of the theory of federalism, its principles, and techniques, and the response of Canadian federal systems to the demands of cultural dualism and regional pressures.

POLI 352 *Comparative Urban Politics and Government* (3 credits)

This course deals with politics and government in selected Canadian cities, with comparative reference to cities elsewhere in the world.

POLI 355 *Nationalism: The Canadian Experience* (3 credits)

This course examines the origins and development of nationalism and regionalism in Canada. It compares nationalist and regionalist sentiments in Canada with those of European countries.

POLI 356 *Canadian Political Parties*
(3 credits)

This course provides a comprehensive examination of the origins and development of political parties in Canada at both the federal and provincial levels. Theories about party development, including one party dominance, brokerage politics and third party development, are examined in order to determine the efficacy of political parties.

POLI 361 *Government, Society and Public Purpose* (3 credits)
This course is an examination of the broad social, economic, political, and cultural forces shaping governmental decisions and policies. Particular attention is paid to the conflict between private and public concerns.

POLI 362 *Policy Analysis and Program Evaluation* (3 credits)
This course provides a basic understanding of various approaches to policy planning and policy evaluation. Special emphasis is placed on various conceptual, methodological, and ethical issues emergent in the evaluation of governmental policy performance.

POLI 363 *Issues in Canadian Public Policy* (3 credits)
The course examines alternative public policies in selected areas at the federal, provincial, and municipal levels in Canada. Policies analysed vary from year to year and include such areas as: social welfare, culture, education, language, environmental protection, energy conservation, urban renewal, and economic policy.

POLI 364 *Hellenistic, Roman, Medieval Political Philosophy* (3 credits)
This course examines the political teachings of the Hellenistic schools such as the Academics, the Stoics, the Epicureans and the Skeptics. It traces these teachings through their reception in the republican theory of Cicero. It then follows their transformation into the political thinking of Christian authors such as St. Augustine.

POLI 365 *Canadian Public Administration* (3 credits)
This course examines the organization and composition of the federal bureaucracy, the role of the bureaucracy in the making and implementation of public policy, patterns of recruitment, and the mechanisms of accountability and control.

POLI 366 *Politics of Africa* (3 credits)
This course is a comparative study of political institutions and processes in selected African countries. Countries selected may vary from year to year.
NOTE: Students should consult the Department for current topic.

POLI 367 *Quebec Public Administration* (3 credits)
This course examines the organization and composition of Quebec bureaucracy, the role of civil servants and the making and implementation of public policy, patterns of recruitment, and the mechanisms of accountability and control.

POLI 368 *Media, Technology and Politics* (3 credits)
This course examines the impact upon politics of changes in technology and media, as well as discussing a diverse range of contemporary thinkers and their understanding of the digital

future. Particular attention is paid to the age of electronic politics and its impact upon the actual practice of political power.

POLI 371 *Early Modern Political Philosophy* (3 credits)
This course studies the origins of modern political thought in the thinkers of the Renaissance and the Reformation. It examines the rise of modern individualism in the writings of thinkers such as Machiavelli, Luther, Calvin, Bodin, Hobbes, and Harrington.

POLI 372 *Political Science and Scientific Method* (6 credits)
This course focuses on contemporary interpretations of reasoning by natural scientists (i.e. empiricism, philosophical relativism and philosophical realism), and inquires into the implications of each of these interpretations for the study of the social sciences in general and political science in particular.

POLI 373 *Late Modern Political Philosophy* (3 credits)
This course examines the philosophy of the Enlightenment and its critics, as well as the political thought of the early industrial period. The thinkers studied may include Locke, Montesquieu, Hume, Rousseau, and John Stuart Mill.

POLI 375 *Nationalism: Origins, Operation, and Significance* (3 credits)
Using specific case studies, this course examines the theories of nationalism developed originally in the early nineteenth century as a purely European phenomenon. It relates the rise of nationalism to the processes of modernization.

POLI 379 *Politics of Latin America* (3 credits)
This course studies the political structures and processes of selected countries in South America, Central America, and the Caribbean. Countries selected may vary from year to year.
NOTE: Students should consult the Department for current topic.

POLI 380 *Comparative Public Administration and Bureaucracy* (3 credits)
This course deals with the theories and the development of public administration within a comparative context. Using a Weberian framework of bureaucracy, the course critically evaluates the formal-rational concepts of bureaucracy in relation to case studies of public services in Europe and the new bureaucratic structures developed in other countries.

POLI 384 *Principles of Political Theory* (3 credits)
This course is an intensive study of a basic work by a major thinker such as Plato, Aristotle, Machiavelli, Hobbes or Hegel. It examines a

major text such as Plato's *Laws* or Hegel's *Phenomenology* as well as commentaries on it, while attempting to explore systematically the issues and problems raised by the text and the interpretative traditions that follow from it.

POLI 386 *Contemporary Liberalism and Its Critics* (3 credits)

This course discusses the political, cultural, and social consequences of classical liberalism and neo-liberalism from the critical viewpoints of a range of contemporary political thinkers. Themes related to globalization, the meaning of the classical liberal idea of the individual in an increasingly "networked" society, and the triumph of the virtual class are important parts of the discussion.

POLI 388 *Human Rights and International Justice* (3 credits)

This course surveys normative questions comprising human rights discourse, with an emphasis on international efforts to promote human rights standards. Topics include the role of the United Nations, the North-South debate, environmental security, the obligation of individuals and states, women's rights and the work of non-governmental organizations. Special consideration is given to the controversy between the universal and particular applications of human rights.

NOTE: Students who have received credit for POLZ 388 may not take this course for credit.

POLI 389 *Religion and Politics* (3 credits)

This course studies the relationship between religion and politics. It examines the impact of religion on political processes and movements in selected countries.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 390 *Ethics and Competing Political Perspectives* (3 credits)

This course focuses on competing ethical perspectives in contemporary political life. A wide range of ethical issues are discussed, which may include, for example, aboriginal claims, pay equity and violence in the media, civil liberties and the Internet, gender debates, reproductive technology, bio-tech and the fate of the "body" in the 21st century. This course seeks to clarify the origins of political thought and the consequences in political practice of clashing ethical perspectives.

NOTE: Students who have received credit for POLZ 390 may not take this course for credit.

POLI 391 *Middle East and Global Conflict* (3 credits)

This course is a study of the Middle East in transition, conflict and ideology in a global context of changing regional alliances. Topics include regional conflicts such as the Arab-Israeli conflict, the Iraq-Iran war, the Gulf crisis, foreign policy process, and the end of the cold war and its impact in the new millennium.

POLI 392 *Survey and Research Design* (3 credits)

This course studies the logic and methodology of political science research, the formulation of hypotheses, and the preparation of research design.

POLI 393 *Empirical Research Methods* (3 credits)

Prerequisite: POLI 392. This course presents quantitative methods of data collection and analysis, and introduces students to SPSS (statistical package for social science).

POLI 394 *Globalization and Sustainable Development* (3 credits)

This course is an introduction to the emerging field of global environmental politics. It surveys the present environmental crisis and the roles of states, international organizations, and civil society. Various case studies dealing with oceans, forests, fisheries, biodiversity, global warming, and others are used to illustrate the inherent complexity of transnational ecological issues in the era of globalization.

NOTE: Students who have received credit for POLZ 394 may not take this course for credit.

POLI 395 *Politics of the Middle East* (3 credits)

This course is a comparative study of the government and politics of Arab North Africa, the Fertile Crescent, and the Arabian peninsula. Countries and topics covered may vary from year to year.

NOTE: Students should consult the Department for current topic.

POLI 396 *Honours Tutorial* (3 credits)

Prerequisite: Enrolment in the Honours (Thesis Option B) in Political Science. This course requires students to conduct a literature review in a topic to be chosen for their thesis, complete a bibliography, and work on their methodological approaches.

POLI 398 *Selected Topics in Political Science* (3 credits)

POLI 399 *Selected Topics in Political Science* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 401 *The American Political Tradition* (3 credits)

Prerequisite: See N.B. number (3). This course examines documents and texts that shape the origin, development, and relationship between American thought and the American political process. Selected readings from the Declaration of Independence, the Articles of Confederation, the Constitution, the Federalist Papers, Thomas Jefferson, Alexis de Tocqueville and John C. Calhoun, are reviewed.

POLI 419 *Strategic Studies* (3 credits)
Prerequisite: See N.B. number (3). This seminar deals with military studies and security policies. It covers the history of military strategies and theories of war.

POLI 420 *Contemporary French Political Thought* (3 credits)
Prerequisite: See N.B. number (3). This seminar examines the tradition of French thought, through the writings of a single political theorist, or through a discussion of competing intellectual perspectives. Some of the leading figures discussed are Baudrillard, Deleuze, Guattari, Foucault, Lyotard, Barthes, Camus, Cizous, Irigaray, Sartre, and Virilio. The seminar explores French thought for its contribution to a critical and eloquent analysis of the post-modern scene.

POLI 421 *Transnational Politics* (3 credits)
Prerequisite: See N.B. number (3). This seminar examines various alternatives such as regime theory, world systems theory, and emerging theories about global civil society. It examines liberal transnationalist thought from Kant to contemporary understandings of globalization, including ideas about technological convergence and renewed cultural divergence. The implications of non-state-centric perspectives for world politics and foreign policy are discussed.

POLI 422 *Canadian Foreign Policy* (3 credits)
Prerequisite: See N.B. number (3). This course examines Canada's foreign policy. In this seminar, particular emphasis is given to the decision-making process by which foreign policy is formulated and implemented, with particular reference to Canadian relations vis-à-vis the United States, the Commonwealth, and the developing countries.

POLI 423 *Peace Studies and Global Governance* (3 credits)
Prerequisite: See N.B. number (3). This seminar focuses on the theory and practice of peace amongst nations. The course begins with a survey of analyses explaining the causes of aggression, war and peace, including theories of structural violence and revolution; nationalism and cosmopolitanism. It then examines the roles played by the state, international organizations, and peace movements, focusing on global and regional disarmament initiatives and peace-keeping.

POLI 424 *India: State and Societal Relations* (3 credits)
Prerequisite: See N.B. number (3). This seminar examines state-societal relations in post-independence India. Topics covered include electoral politics, religious nationalism, economic and social policies, and women and politics in India.

POLI 433 *Critics of Modernity* (3 credits)
This seminar studies selected writings by major critics of modernity during the twentieth century.

The authors studied may include Hannah Arendt, Albert Camus, Fyodor Dostoevsky, George Grant, Bertrand de Jouvenel, Alasdair MacIntyre, Jacques Maritain, Richard Niebuhr, Michael Oakeshott, Leo Strauss, Charles Taylor, and Eric Voegelin.

POLI 435 *Marxist and Neo-Marxist Political Thought* (3 credits)
Prerequisite: See N.B. number (3). This seminar undertakes a critical examination of the major texts of Marx and Engels, and a study of representative selections of Neo-Marxist thinkers such as Gramsci, Althusser, Miliband and Poulantzas.

POLI 438 *Comparative Provincial Politics in Canada* (3 credits)
Prerequisite: See N.B. number (3). This seminar analyses the regional political cultures in Canada; the development of provincial political parties and public administrations, the rise of third parties, and electoral behaviour and provincial public opinion.

POLI 461 *The State and Economic Life* (3 credits)
Prerequisite: See N.B. number (3). This seminar examines the development of the welfare state and the forces contributing to the expansion of government intervention in the economy. Particular attention is devoted to the causal interdependence among values, political power, wealth, the general pattern of social stratification, and economic development.

POLI 463 *Government and Business in Canada* (3 credits)
Prerequisite: See N.B. number (3). This seminar in public policy is designed to explore the relationship between government and business in Canada. Particular attention is paid to the formation and implementation of policy intended to promote and control enterprise, and the role of government as entrepreneur.

POLI 471 *Political Thought and Ideology in Canada* (3 credits)
Prerequisite: See N.B. number (3). This seminar explores key Canadian political ideologies: liberalism, conservatism, socialism, populism, and social democracy through the writings of important contributors, past and present, to the tradition of Canadian political thought. The authors studied may include George Grant, Harold Innes and Marshall McLuhan.

POLI 480 *Comparative Public Policy* (3 credits)
Prerequisite: See N.B. number (3). This seminar is a comparative analysis of some of the major policy problems confronting both industrially advanced and developing societies. The underlying objective of the seminar is to critically evaluate how similar problems are approached by different political systems.

POLI 481 *Issues in Western European Politics* (3 credits)
Prerequisite: See N.B. number (3). This seminar

examines the nature of politics of the states and societies of Western Europe, including the significance of their membership in the European Union.

POLI 482 *State and Society in Asia*
(3 credits)

Prerequisite: See N.B. number (3). This seminar course examines the nature of politics in Asia. A specific focus is placed on selective issues of state-society relations, the emergence of new political forces and institutions in response to changes in the socio-economic structure of the region.

POLI 483 *State and Society in Latin America*
(3 credits)

Prerequisite: See N.B. number (3). This seminar examines the nature of politics in Latin America. A specific focus is placed on selective issues of state-society relations, and the emergence of new political forces and institutions in response to changes in the socio-economic structure of the region.

POLI 484 *Post-Communist Societies and States in Transition*
(3 credits)

Prerequisite: See N.B. number (3). This seminar reviews the post-communist states' transition to democracy and their state-formation. The seminar focuses on the interplay between the forces of nationalism, ethnicity, identity, and the transition to democratic structures.

POLI 485 *Issues in Development and Democracy*
(3 credits)

Prerequisite: See N.B. number (3). This seminar focuses on the political and economic problems of the new nations. A particular emphasis is placed on understanding the process of development and state formation within a democratic context.

POLI 486 *Advanced Seminar in International Relations*
(3 credits)

Prerequisite: See N.B. number (3).

POLI 487 *Advanced Seminar in Comparative Politics*
(3 credits)

Prerequisite: See N.B. number (3).

POLI 488 *Advanced Seminar in Canadian and Quebec Politics*
(3 credits)

Prerequisite: See N.B. number (3).

POLI 489 *Advanced Seminar in Public Policy and Evaluation*
(3 credits)

Prerequisite: See N.B. number (3).

POLI 490 *Advanced Seminar in Political Theory*
(3 credits)

Prerequisite: See N.B. number (3).

Advanced seminars deal with selected topics in sub-fields of political science. Topics vary from year to year.

NOTE: Students should consult the Department for a description of these courses.

POLI 495 *Honours Thesis* (6 credits)

Prerequisite: Enrolment in the Honours (Thesis Option B) in Political Science. The student works with an individual faculty member in a particular field of study in Political Science. Students are asked to produce a sustained piece of written work to be defended before a departmental committee.

POLI 496 *Honours Seminar* (3 credits)

Prerequisite: Permission of the Department. This seminar involves the student in formulating an Honours research proposal, and the research and writing of an Honours paper. Topics of the seminar vary from year to year.

POLI 497 *Internship* (3 credits)

Prerequisite: Permission of the Department. The internship is a one-semester apprenticeship in some aspect of public affairs and policy analysis. Placements may be drawn from all areas of possible employment, including private sector, government and community organizations. Students are asked to submit a written report which summarizes and evaluates their work experience.

NOTE: Eligible students should have completed 39 credits in Political Science and must have an excellent academic record. The undergraduate committee of the Department will determine the eligibility of the student and will approve the internship. Students should consult the Department for further information.

POLI 498 *Advanced Topics in Political Science*
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.250 PSYCHOLOGY

Faculty

<i>Chair</i> JEAN-ROCH LAURENCE, <i>Associate Professor</i>	CONSTANTINA GIANNOPOULOS RICK GURNSEY PAUL D. HASTINGS JAMES E. JANS REX B. KLINE KAREN Z. LI SYDNEY B. MILLER DAVID MUMBY VIRGINIA B. PENHUNE NATALIE PHILLIPS ADAM RADOMSKY CARSTEN WROSCHE
<i>Distinguished Professors Emeriti</i> ZALMAN AMIT TANNIS ARBUCKLE-MAAG ALEX E. SCHWARTZMAN	
<i>Professors</i> SHIMON AMIR WILLIAM BUKOWSKI JUNE S. CHAIKELSON ANNA-BETH DOYLE JAMES G. PFAUS DIANE POULIN-DUBOIS DOLORES PUSHKAR NORMAN SEGALOWITZ LISA SERBIN PETER SHIZGAL DALE M. STACK MICHAEL W. von GRÜNAU BARBARA WOODSIDE	<i>Assistant Professors</i> MARK ELLENBOGEN AARON JOHNSON JENNIFER McGRATH ANDREW RYDER URI SHALEV
<i>Associate Professors</i> ANDREAS ARVANITOGIANNIS WAYNE BRAKE C. ANDREW CHAPMAN MICHAEL CONWAY ROBERTO DE ALMEIDA MICHEL DUGAS	<i>Lecturer</i> LUCIE BONNEVILLE
	<i>Adjunct Professors</i> SAM BURSTEIN HALLIE FRANK ALAIN GRATTON PIERRE-PAUL ROMPRÉ ROY A. WISE

Location

Loyola Campus
Psychology Building, Room: PY 146
514-848-2424 ext. 2222

Richard J. Renaud Science Complex, Room: SP 244

Department Objectives

Psychology is the scientific study of mental life, both its neurological bases and its manifestations in behaviour. Psychology also examines the factors that promote change in behaviour and mental activity. Through teaching and research, the Department serves the community by furthering such knowledge and applying it to promote human welfare. The commitment of faculty members to research assures that students keep up with current developments. Their involvement in community programs keeps students and faculty alike in close touch with the practical application of the discipline.

Programs

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits. Students must have a GPA of 3.5 in Psychology courses to qualify for entry to Honours.

For additional information concerning programs and courses, students should consult the Department.

33 Core Program

- 15 PSYC 310³, 315^{3*}, 320⁶, 358³
- 9 Chosen from PSYC 322³, 326³, 331³, 371³
- 9 Chosen from PSYC 343³, 346³, 349³, 352³

**Students who have completed appropriate Quantitative Methods and Mathematics courses may qualify for exemption from PSYC 315. Application for exemption should be made to the*

Arts and Science Student Academic Services.
Students exempted from PSYC 315 will replace
the credits with 300-level PSYC.

66 BA Honours in Psychology

- 33 Core Program
- 6 PSYC 311³, 316³
- 6 Chosen from PSYC 344³, 347³, 350³, 353³, 359³, 361³, 362³, 365³, 367³, 368³, 369³, 396³
- 6 Chosen from PSYC 323³, 324³, 327³, 332³, 334³, 373³, 375³, 377³, 379³, 380³, 391³
- 3 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor
- 6 PSYC 421³, 422³
- 6 PSYC 430⁶

66 BSc Honours in Psychology

- 33 Core Program
- 6 PSYC 311³, 316³
- 6 Chosen from PSYC 344³, 347³, 350³, 353³, 359³, 361³, 362³, 365³, 367³, 368³, 369³, 396³
- 6 Chosen from PSYC 323³, 324³, 327³, 332³, 334³, 373³, 375³, 377³, 379³, 380³, 391³
- 3 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor
- 6 PSYC 421³, 422³
- 6 PSYC 430⁶

NOTE: In addition students must complete a minimum of 15 science credits outside the Department. The courses must be selected in consultation with a Psychology program advisor.

NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

66 BSc Honours in Psychology (Behavioural Neuroscience Option)

- 33 Core Program
- 6 PSYC 311³, 316³
- 12 Chosen from PSYC 359³, 361³, 362³, 365³, 367³, 368³, 369³
- 12 PSYC 421³, 422³, 430⁶
- 3 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

An additional 21 Science credits as specified below:

- 9 CHEM 221³, 222³, 271³
- 3 BIOL 225³ or 226³
- 9 Chosen from BIOL 225³, 226³, 227³, 261³, 266³, 321³, 335³, 364³, 367³, 435³, 462³; CHEM 478³

60 BA Specialization in Psychology

- 33 Core Program
- 3 PSYC 316³
- 6 Chosen from PSYC 344³, 347³, 350³, 353³, 359³, 361³, 362³, 365³, 367³, 368³, 369³, 396³
- 6 Chosen from PSYC 323³, 324³, 327³, 332³, 334³, 373³, 375³, 377³, 379³, 380³, 391³

- 12 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

60 BSc Specialization in Psychology (Behavioural Neuroscience Option)

- 33 Core Program
 - 3 PSYC 316³
 - 12 Chosen from PSYC 359³, 361³, 362³, 365³, 367³, 368³, 369³
 - 12 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor
- An additional 21 Science credits as specified below:
- 9 CHEM 221³, 222³, 271³
 - 3 BIOL 225³ or 226³
 - 9 Chosen from BIOL 225³, 226³, 227³, 261³, 266³, 321³, 335³, 364³, 367³, 382³, 435³, 462³; CHEM 478³

60 BSc Specialization in Psychology

- 33 Core Program
- 3 PSYC 316³
- 6 Chosen from PSYC 344³, 347³, 350³, 353³, 359³, 361³, 362³, 365³, 367³, 368³, 369³, 396³
- 6 Chosen from PSYC 323³, 324³, 327³, 332³, 334³, 373³, 375³, 377³, 379³, 380³, 391³
- 12 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

NOTE: In addition students must complete a minimum of 15 science credits outside the Department. The courses must be selected in consultation with a Psychology program advisor.
NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

42 BA Major in Psychology

- 33 Core Program
- 9–12 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

42 BSc Major in Psychology

- 33 Core Program
- 9–12 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

24 Minor in Psychology

- 6* PSYC 200
- 6 PSYC 310³, 315³
- 12 Psychology elective credits with a minimum of nine credits at the 300 level selected in consultation with a Psychology program advisor

**Students exempted from PSYC 200 will replace the credits with 300-level PSYC.*

NOTE: Students in programs leading to the BSc degree are reminded that PSYC 320 and PSYC 391-395 do not count as science credits. All other 300- and 400-level Psychology courses count as science credits.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PSYC 200 *Introductory Psychology*
(6 credits)

This comprehensive survey course introduces the student to the phenomena and terminology encountered in a number of areas of scientific psychology. Topics covered include basic mechanisms of the receptors and nervous system, memory, motivation, perception, learning, abnormal psychology, personality, cognition, and social aspects of behaviour. Lectures and conferences.

NOTE: Students who have received credit for or exemption from Introductory Psychology at Cegep or elsewhere may not take this course for credit.

NOTE: Students entering all PSYC programs except the Minor who have not received credit for or exemption from Introductory Psychology at Cegep or elsewhere must take this course, but not for Psychology program credit.

NOTE: Students who have received credit for PSYC 200 or equivalent may not take MANA 213 for credit.

PSYC 249 *Perception and Cognition in Daily Life* (3 credits)

This course introduces topics in perception and cognition with an emphasis on how humans acquire, store, and use information in real-world contexts. Topics covered include reading, perceiving objects, art and motion pictures, processing language and music, solving problems and planning actions.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 249 or for this topic under a PSYC 298 number may not take this course for credit.

PSYC 280 *Adolescence* (3 credits)

This course deals with various aspects of adolescence including such topics as physical change, sexual and sex-related behaviours, cognitive growth, and lifestyles.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 379 or 391 may not take this course for credit.

PSYC 281 *Learning Disabilities* (3 credits)

This course deals with selected aspects of theory and practice related to learning disabilities including perceptual and motor disabilities, language disabilities, and methods of diagnosis and remediation.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 377 or 392 may not take this course for credit.

PSYC 283 *Emotional Development*
(3 credits)

This course focuses on emotional development in childhood. Topics that may be considered include prenatal and genetic influences on emotion, attachment formation, effects of alternative child care, role of father, and poverty. The normal development of anxiety, fear, and affection is discussed.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 284 *Socialization* (3 credits)

This course examines socialization processes during infancy, childhood, and adolescence.

The effects on socialization of factors such as family structure, disciplinary techniques, and social class are considered. The development of social skills, morality, pro-social behaviour, and aggression are examined.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 286 *Psychology of Leisure*
(3 credits)

This course explores the rapidly developing psychologically-oriented theory and research on leisure and its meaning and importance for the individual. Topics that may be considered include motivation for leisure activities, planning for leisure and/or retirement, therapeutic value of leisure, new conceptions of work and leisure, leisure and self-development.

NOTE: Students registered in a Psychology program may not take this course for credit.

SELECTED TOPICS IN PSYCHOLOGY

The 200-level Selected Topics courses (PSYC 297; PSYC 298; PSYC 299) are designed as elective courses for students who are not registered in a Psychology program. These courses cover a wide variety of areas of contemporary interest. The particular topics vary from session to session and the material is dealt with in a manner appropriate for students who have minimal formal background in psychology. Students should consult the Undergraduate Class Schedule to find out the topic titles for a particular session.

NOTE: Students registered in a Psychology program may not take these courses for credit.

The Department also offers 300- and 400-level topic courses for students registered in Psychology programs. (See below).

PSYC 297 *Selected Topics in Psychology*
(3 credits)

PSYC 298 *Selected Topics in Psychology*
(3 credits)

PSYC 299 *Selected Topics in Psychology*
(6 credits)

PSYC 310 *Strategies of Inquiry in Psychology* (3 credits)

Prerequisite: PSYC 200 or equivalent; PSYC 315 previously or concurrently. The course describes how information is obtained in modern, scientifically oriented psychology. The variety of means used to understand psychological phenomena and processes is elaborated with reference to particular areas in psychology. Observational, experimental, and correlational techniques are presented in the context of ongoing research. The course emphasizes a conceptual understanding of the procedures that are necessary for developing and evaluating the explanations and theories that we construct to make sense of the diverse phenomena that constitute the domains of modern psychology. Lectures and laboratory.

PSYC 311 *Research Experience in Psychology* (3 credits)

Prerequisite: PSYC 310; PSYC 315; PSYC 316 previously or concurrently, and permission of the Department. The course introduces students to more advanced methodological issues. The course provides experience in the critical evaluation of research design and methodology. Students must design, conduct, analyse, and present a report on a brief research project. The course is primarily intended for students who are preparing for graduate school. Lectures and laboratory.

PSYC 315 *Statistical Analysis I* (3 credits)

This course is an introduction to statistics, presented in an experimental psychology context. Topics dealt with include frequency distributions, measures of central tendency and dispersion, the normal curve, correlation, elementary probability theory, an introduction to hypothesis testing, and the *t* test.

NOTE See \$200.7

NOTE: Students who have completed Cegep QM 360-300 (Quantitative Methods) and MATH 201-300 (Complementary Topics in Mathematics) with 75% or better grades can be exempt from PSYC 315. Exemptions may be granted on the basis of other courses. Application for exemption should be made to the Arts and Science Student Academic Services.

PSYC 316 *Statistical Analysis II* (3 credits)

Prerequisite: PSYC 310; PSYC 315. This course builds on the experience derived from PSYC 310 and 315 to advance the student's understanding of hypothesis testing and statistical inferences. The material dealt with includes non-parametric statistics, the chi-square and F-distribution, introductory analysis of variance, and various correlational techniques. *NOTE See \$200.7*

PSYC 317 *Multivariate Statistical Procedures* (3 credits)

Prerequisite: PSYC 310; PSYC 315; PSYC 316, and permission of the Department. Advanced statistical techniques are presented with an emphasis on procedures that allow the use of multiple independent or dependent variables.

Examples of specific techniques to be discussed in the course include partial and multiple regression, the analysis of covariance (ANCOVA), and multivariate analysis of variance (MANOVA). The course includes a computer laboratory in which students practice the computation of various procedures with real data sets. Lectures and laboratory.

PSYC 318 *Measurement of Individual Differences* (3 credits)

Prerequisite: PSYC 310; PSYC 315. A consideration of the general theory of psychological measurement and its application in the development and use of various psychometric instruments such as achievement, intelligence, aptitude, personality, and interest tests. Derived scores, norms, reliability, and validity of these instruments are discussed in the context of general measurement problems in psychology.

NOTE: Students who have received credit for PSYC 384 may not take this course for credit.

PSYC 320 *Modern Psychology in Historical Perspective* (6 credits)

Prerequisite: Introductory Psychology or equivalent. The course deals with the historical background of psychology from ancient and medieval times up to the present. Early contributions to psychology from the fields of philosophy, physics, physiology, and psychophysics are presented and related to the various schools of psychological thought from the late-nineteenth century to the modern era.

PSYC 322 *Fundamentals of Abnormal Psychology* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. The course deals with major concepts and issues of abnormal psychology in humans (stigma, traits vs. states, ethics). It studies the major scientific models of diagnosis, etiology, assessment and therapy. It presents the major disorders of the five axes of the DSM system. Social, learning, cognitive, biomedical and psychodynamic approaches to major clinical disorders are studied with emphasis on research and methodology throughout.

NOTE: Students who have received credit for PSYC 339 may not take this course for credit.

PSYC 323 *Psychopathology: Behaviour Disorders* (3 credits)

Prerequisite: PSYC 322. The course presents a focused and thorough treatment of issues in one category of adult psychopathology. Advanced contemporary research and theory covering a wide range of behaviour disorders is presented. Topics studied include disorders of personality, anxiety, mood, psychosexuality, eating, and life-adjustment. Post-traumatic, psychosomatic, somatoform, and dissociative disorders may also be discussed.

NOTE: Students who have received credit for PSYC 339 may not take this course for credit.

PSYC 324 *Psychopathology: Psychotic and Organic Disorders*
(3 credits)

Prerequisite: PSYC 322. The course presents a focused and thorough treatment of issues in organic-related adult psychopathology. The course deals with advanced contemporary research and theory of various clinical disorders such as the psychoses, schizophrenias and schizophreniform disorders, degenerative disorders, aging disorders, dementias, substance-abuse disorders and psychophysiological disorders.
NOTE: Students who have received credit for PSYC 339 may not take this course for credit.

PSYC 325 *Eating Disorders* (3 credits)

Prerequisite: PSYC 310; PSYC 315. A number of eating problems are reviewed including those resulting in obesity, anorexia nervosa, and/or bulimia. Eating problems are examined from a number of perspectives with emphasis given to developmental, physiological, and social learning theories. For example, social learning theory will be related to differential development of eating problems in men and women. Treatment of eating problems is studied in relation to behavioural, psychodynamic, and physiological interventions.
NOTE: Students who have received credit for PSYC 398B may not take this course for credit.

PSYC 326 *Theories of Personality*
(3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. The organization, functioning, and development of personality are discussed from the point of view of the major current theories. Evidence from experiments and field studies are discussed. Socio-economic, cultural, and biological factors may also be considered.
NOTE: Students who have received credit for PSYC 336 may not take this course for credit.

PSYC 327 *Contemporary Issues in Personality* (3 credits)

Prerequisite: PSYC 326. The course will critically examine the research and theory concerning a number of selected issues of contemporary interest in the area of personality.
NOTE: Students who have received credit for PSYC 336 may not take this course for credit.

PSYC 329 *Behaviour Genetics* (3 credits)

Prerequisite: PSYC 310; PSYC 315. The discipline of behavioural genetics provides a meeting place for the behavioural sciences and genetics. The course provides an introduction to modern ideas concerning the complementary roles of hereditary and environmental influences in the shaping of behaviour. Basic concepts including the foundations of population genetics, transmission genetics and heritability are reviewed. Modern techniques, such as adoption studies and twin studies, are considered. The influence of genetics in areas such as cognition, personality, and psychopathology is explored.

PSYC 331 *Social Psychology* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. The behaviour of the individual as a member of a larger grouping or society is dealt with. The study of the social influences on individuals or groups involves consideration of topics such as attitude change and development, intra-group communication and problem-solving, leadership, prejudice, development of social movements and cults.
NOTE: Students who have received credit for PSYC 333 may not take this course for credit.

PSYC 332 *The Self in Social Context*
(3 credits)

Prerequisite: PSYC 331. The course addresses the wide range of theoretical and empirical approaches to the self in contemporary social psychology. Self-esteem and self-concept are addressed in terms of personal and social norms, affective experience, and interpersonal behaviour.
NOTE: Students who have received credit for PSYC 333 may not take this course for credit.

PSYC 334 *Emotion in the Social Context*
(3 credits)

Prerequisite: PSYC 331. This course addresses models of emotion, individual differences in emotion and mood, and how emotion influences attention, memory, evaluation, and behaviour in the social domain.
NOTE: Students who have received credit for PSYC 333 may not take this course for credit.

PSYC 343 *Motivation and Emotion I*
(3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. This course reviews and evaluates theories and empirical findings concerning motivation and emotion. Topics include the study of motivation and emotion in historical perspective, the biological and evolutionary bases of motivation and emotion, drive, arousal, and incentive theories of motivation.
NOTE: Students who have received credit for PSYC 342 may not take this course for credit.

PSYC 344 *Motivation and Emotion II*
(3 credits)

Prerequisite: PSYC 343. This course is a continuation of PSYC 343; it presents a more focused and thorough treatment of selected topics in motivation and emotion. These may include sleep, hunger, sex, aggression, altruism, achievement, pain, fear, and play. Different sections of the course may cover different sets of topics.
NOTE: Students who have received credit for PSYC 342 may not take this course for credit.

PSYC 346 *Learning I* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. This course reviews and evaluates theories and empirical findings concerning basic mechanisms of learning and memory. Topics include the study of learning in historical perspective, Pavlovian conditioning, operant conditioning, reinforcement, stimulus

control of behaviour, types of memory, and behavioural paradigms used in contemporary research on learning and memory.

NOTE: Students who have received credit for PSYC 345 may not take this course for credit.

PSYC 347 *Learning II* (3 credits)

Prerequisite: PSYC 346. This course is a continuation of PSYC 346; it presents a more focused and thorough treatment of more advanced topics in learning. These may include developmental aspects of learning, animal memory and cognition, human applications of conditioning principles, biological constraints on learning, or the physiology of learning and memory. Different sections of the course may cover different sets of topics.

NOTE: Students who have received credit for PSYC 345 may not take this course for credit.

PSYC 349 *Sensation and Perception I* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. Physiological and psychological bases of sensation and perception. Topics such as pitch perception, colour vision, perception of movement, size, and distance are included. The areas of sensation and perception are integrated through a human information-processing approach to the understanding of audition, vision, and other modalities.

NOTE: Students who have received credit for PSYC 348 may not take this course for credit.

PSYC 350 *Sensation and Perception II* (3 credits)

Prerequisite: PSYC 349. A continuation of PSYC 349. This course examines current topics in the area of sensation and perception with an emphasis on recent research and developments in vision and audition, including areas such as colour vision, space perception, the anatomical and physiological bases of perception, the perception of illusions, and motion perception. Different sections of this course may cover different sets of topics.

NOTE: Students who have received credit for PSYC 348 may not take this course for credit.

PSYC 352 *Cognition I* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. A course that introduces the general area of cognitive psychology through the presentation and discussion of the theoretical and experimental foundations for our current understanding of how humans acquire and use knowledge. Current research findings and theories in the areas of pattern recognition, attention, memory, and imagery are surveyed. Following this introductory course, students should have the necessary background to pursue advanced topics in cognition.

NOTE: Students who have received credit for PSYC 351 may not take this course for credit.

PSYC 353 *Cognition II* (3 credits)

Prerequisite: PSYC 352. A continuation of PSYC 352 that presents thorough treatments of

topics such as cognitive development, psycholinguistics, concept acquisition, reading, speech perception, problem-solving, and reasoning. Different sections of this course may cover different sets of topics.

NOTE: Students who have received credit for PSYC 351 may not take this course for credit.

PSYC 358 *Fundamentals of Behavioural Neurobiology* (3 credits)

Prerequisite: BIOL 200 or BIOL 201 or BIOL 202 or Cegep Biology 301 or 101-NYA or Cegep Biology 921. The purpose of this course is to introduce students to the neural substrate of behaviour. Topics include the structure and function of neurons as well as neural communication, an introduction to neuro-anatomy and endocrinology, the processing of sensory information, and the control of movement.

NOTE: Students who have received credit for BIOL 383, PSYC 357, 360 or 363 may not take this course for credit.

PSYC 359 *Neuropsychology* (3 credits)

Prerequisite: PSYC 358. This course provides a general introduction to human neuropsychology. The topics discussed include principles of brain organization and function, human neuroimaging and recording techniques, specialized functions of the lobes of the cerebral cortex, and selected neurological disorders. The emphasis is on how these issues can be related meaningfully to human behaviour and higher cognitive processes.

NOTE: Students who have received credit for PSYC 363 may not take this course for credit.

NOTE: Students who have received credit for PSYC 357 or 360 may take this course for credit.

PSYC 361 *Neurobiology of Drug Dependence* (3 credits)

Prerequisite: PSYC 310; PSYC 315; or six credits from among PSYC 358, 359, 362, 365, 367. This course focuses on the behavioural and pharmacological mechanisms underlying the phenomenon of drug dependence. Concepts such as physical and psychological dependence, tolerance, reinforcement, and aversion are discussed. In addition the role of these concepts in the development of new treatment procedures is assessed.

PSYC 362 *Neurobiology of Learning and Memory* (3 credits)

Prerequisite: PSYC 346; PSYC 358; or permission of the Department. A number of mechanisms subserving learning and memory are investigated, including models based on relatively simple nervous systems, e.g., conditioning in Aplysia, as well as more complex systems, e.g., the neuronal mechanisms mediating eyeblink conditioning in the rabbit and the neuronal pathways that mediate reinforcement. Other topics may include the anatomical bases of memory, including the role of the hippocampus in spatial memory and the role of the NMDA receptor in learning and memory.

NOTE: Students who have received credit for

PSYC 357 or 360 may not take this course for credit.

NOTE: Students who have received credit for PSYC 363 may take this course for credit.

PSYC 365 *Neurobiology of Sensation and Perception* (3 credits)

Prerequisite: PSYC 349; PSYC 358; or permission of the Department. The course examines the relation between the structure of sensory systems and perceptual function. Some of the topics addressed are how the structure of the eye and ear determines how and what we see and hear; the modularity of cortical organization; segregation and integration of visual information; PDP and other models; bottom-up and top-down processing; the reconstruction of the perceptual world.

NOTE: Students who have received credit for PSYC 357 or 360 may not take this course for credit.

NOTE: Students who have received credit for PSYC 363 may take this course for credit.

PSYC 367 *Neurobiology of Motivated Behaviours* (3 credits)

Prerequisite: PSYC 343; PSYC 358; or permission of the Department. The course examines the neural mechanisms mediating motivated behaviour. Topics addressed include the following: pleasure and pain; ingestive behaviour; sexual and reproductive behaviour; aggression; temperature regulation; sleep, arousal, and biological rhythms.

NOTE: Students who have received credit for PSYC 357 or 360 may not take this course for credit.

NOTE: Students who have received credit for PSYC 363 may take this course for credit.

PSYC 368 *Neurobiology of Sexual Differentiation* (3 credits)

Prerequisite: PSYC 358. This course deals with the genetic and hormonal influences that lead to the sexual differentiation of the brain and behaviour. Mechanisms of chromosomal and neuroendocrine effects on the body and neural circuits, and plasticity are discussed. Animal differentiation as well as normal and abnormal human differentiation are examined.

NOTE: Students who have received credit for PSYC 390 may not take this course for credit.

PSYC 369 *Hormones and Behaviour* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently; PSYC 358. The course deals with the role of hormones in integrating the activity of various neural, endocrine, and sensory systems to bring about organized, purposeful behaviour. Topics discussed include the reproductive, sexual, or environmentally adaptive systems, with treatment of material ranging from the molecular to the behavioural level.

PSYC 371 *Fundamentals of Life-Span Development* (3 credits)

Prerequisite: PSYC 310 and PSYC 315

previously or concurrently. This course provides a broad survey of psychological research and theories about human development, covering the periods of infancy, childhood, adolescence, early adulthood, midlife, and late life. The life-span perspective emphasizes the interaction of physical, cognitive, and socioemotional domains. The focus is on the normative course of development, although aspects of abnormal development are briefly reviewed. The course also introduces the specific research designs and methods relevant to developmental research. This course serves as preparation for the in-depth study of each life period offered in subsequent courses.

NOTE: Students who have received credit for PSYC 330 or 370 may not take this course for credit.

PSYC 373 *Infancy* (3 credits)

Prerequisite: PSYC 370 or 371. The course provides a comprehensive account of psychological development in infancy. Aspects of infant development such as physical, perceptual, cognitive, verbal, emotional, and social development are covered. Theoretical perspectives and research methods specific to the study of infant development are emphasized.

NOTE: Students who have received credit for PSYC 330 may not take this course for credit.

PSYC 375 *Development During Childhood* (3 credits)

Prerequisite: PSYC 371. Major analysis of the basic processes of development during the early childhood and school-age periods. A broad range of theoretical positions and methodological strategies are presented. Emphasis is on physical, cognitive, emotional, social, and personality development and the origins of individual differences in adjustment and well-being. Particular attention is given to cultural variability in development and to developmental differences between girls and boys.

NOTE: Students who have received credit for PSYC 330 or 370 may not take this course for credit.

PSYC 377 *Abnormal Development During Childhood* (3 credits)

Prerequisite: PSYC 370 or 371. Using principles of developmental and clinical psychology, this survey course focuses primarily on understanding the pathways to abnormal adjustment in childhood. The course covers the roots of social competence/deviance in the early experience and temperament of the child; the assessment of social and cognitive deficits and the efficacy of interventions. Applications to populations of children with special problems are examined. Examples of the special problems include hyperactivity, conduct disorders, overanxiety, learning disabilities, mental retardation, and autism.

PSYC 379 *Adolescent Development* (3 credits)

Prerequisite: PSYC 370 or 371. The course

deals with various aspects of development in adolescence. Such topics as hormonal and physical changes, cognitive development (Piagetian, information-processing and psychometric views), the peer group, friendships, parent-adolescent interactions, sex roles and identity formation, sexuality, delinquency, drug abuse, suicide, and psychological disorders in adolescents may be discussed. Whenever possible, developmental issues in adolescence are considered from a cross-cultural as well as historical perspective.

PSYC 380 *Aging* (3 credits)

Prerequisite: PSYC 370 or 371. This course covers recent developments in the psychology of aging with emphasis on research aspects. The topics examined include methodological considerations, the implications of physiological changes due to age on people's behaviour, and the influence of aging on personality, cognitive processes, coping styles, sex roles, and adjustment. The class will be asked to consider the extent to which psychological changes associated with age are caused by biological processes and by social processes.

PSYC 381 *Scaling* (3 credits)

Prerequisite: PSYC 310; PSYC 315. The theoretical basis and application of scaling methods in psychophysics and social psychology are studied. Quantitative scales for the measurement of attitudes and sensations are derived and constructed. Other topics that may be covered include subjective estimate methods, the law of comparative judgement, unfolding techniques, and signal-detection theory.

**PSYC 385 *Personnel Psychology*
(3 credits)**

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. This course focuses on the contributions of psychology to several human resource considerations in organizations. Topics include personnel selection, training methods, personnel appraisal, and career development. Other relevant topics may be discussed depending on student interest. This is an applied area of psychology and therefore the interplay between theory, research, and application is stressed.

**PSYC 386 *Organizational Psychology*
(3 credits)**

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. The theoretical and research interests of industrial psychologists centre on such topics as employee motivation and job satisfaction, leadership and communication in organizations, and organizational development. Other related topics may be covered. This is an applied area of psychology and therefore the interplay between theory, research, and application is stressed.

**PSYC 391 *Gender in the Social Context*
(3 credits)**

Prerequisite: PSYC 331. The course deals

with the issue of how the biological categories of female and male are modified in the social context. It examines the social transformation of biological females and males into gendered individuals from a theoretical and empirical perspective. The development of gender identity, gender role, and the sex vs. gender differences in various areas of psychological functioning such as cognitive behaviour, mental health, and social behaviours are analysed, and their underlying mechanisms examined.

NOTE: Students who have received credit for PSYC 390 may not take this course for credit.

PSYC 392 *Health Psychology* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently. Psychological issues in the promotion of health and the treatment of illness are explored. Theoretical as well as empirical contributions to the study of health promotion and disease etiology are scrutinized. Biomedical and psychosocial etiological models of health and disease are examined from epidemiological and psychological perspectives.

NOTE: Students who have received credit for PSYC 364 may not take this course for credit.

PSYC 393 *Contemporary Issues in Health Psychology* (3 credits)

Prerequisite: PSYC 392. This course offers a more focused treatment of selected advanced topics in health psychology. Topics covered may include the following: the relationship between behavioural reactivity and cardiovascular health, illness behaviour, psychological aspects of pain, the role of aerobic exercise in health promotion, psychosocial aspects of substance abuse, and relapse prevention strategies for harm reduction.

NOTE: Students who have received credit for PSYC 364 may not take this course for credit.

PSYC 395 *Psychology of Language and Communication* (3 credits)

Prerequisite: PSYC 310; PSYC 315; or a minimum of three credits from COMS 240 or LING 200; or permission of the Department. The course deals with the cognitive, developmental, and social aspects of language and human communication. Topics discussed may include psychological consideration of modern linguistic theories, child-language development, second-language development in children and adults, speech perception, biological basis of language, social psychological aspects of human communication.

PSYC 396 *Foundations of Animal Behaviour* (3 credits)

Prerequisite: PSYC 310 and PSYC 315 previously or concurrently; or nine credits in Cegep-level Chemistry and Biology courses; or permission of the Department. This course explores the bases underlying the study of animal behaviour as they relate to the study of psychobiology and evolutionary psychology. Topics include methodological considerations, behaviour genetics, theory of evolution, basic

sociobiological and ethological concepts.
NOTE: Students who have received credit for PSYC 366 may not take this course for credit.

PSYC 397 *Contemporary Issues in Animal Behaviour* (3 credits)

Prerequisite: PSYC 396. This is a continuation of PSYC 396. The course presents a detailed treatment of topics such as biological reproductive strategies, animal communication, territoriality and aggression, the effects of early experience, comparative animal learning and cognition, and mechanism of orientation navigation and homing.
NOTE: Students who have received credit for PSYC 366 may not take this course for credit.

SELECTED PROBLEMS IN PSYCHOLOGY
The Selected Problems in Psychology courses (PSYC 398 and PSYC 399) are designed for students enrolled in a Psychology program. The material is dealt with in a manner that assumes a background in experimental psychology and, in some cases, specific preparation through prior completion of a related course. The minimal prerequisite is PSYC 310 (Strategies of Inquiry in Psychology) and PSYC 315 (Statistical Analysis I). Students should consult the Psychology Department Course Guide (published yearly) for details concerning available courses.

PSYC 398 *Selected Problems in Psychology* (3 credits)

PSYC 399 *Selected Problems in Psychology* (6 credits)

PSYC 400 *Advanced Experimental Psychology* (6 credits)
Prerequisite: PSYC 310; PSYC 311; PSYC 315; PSYC 316 or equivalent, and permission of the Department. The course provides experience in the design, conduct, analysis, and reporting of independent research in the major areas of psychology. The research is undertaken under the supervision of a faculty member.

PSYC 421 *Honours Seminar: Selected Topics in Psychology* (3 credits)

Prerequisite: PSYC 311, 316, and permission of the Department. This seminar critically examines current topics in psychology such as learning, perception, cognition, and language. Emphasis is on current theory as it relates to selected topics from these areas.
NOTE: Students who have received credit for PSYC 420 may not take this course for credit.

PSYC 422 *Honours Seminar: Selected Issues in Psychology* (3 credits)

Prerequisite: PSYC 311, 316, and permission of the Department. This seminar critically examines

current issues in psychology such as social and developmental processes, motivation, emotion, and the biological bases of behaviour. Selected issues from these areas are discussed from theoretical perspectives specific to given phenomena.
NOTE: Students who have received credit for PSYC 420 may not take this course for credit.

PSYC 430 *Honours Thesis* (6 credits)

Prerequisite: Permission of the Department. Open to final-year Honours students. This course requires the student to propose and conduct a study and submit a thesis written according to the APA format. The work is supervised by a thesis chair selected by the student from within the Department.

PSYC 436 *Directed Readings in Psychology* (3 credits)

Prerequisite: PSYC 311, PSYC 316, and permission of the Department. This course is designed for the advanced student wishing to do independent, individually supervised literature research on a specific topic in psychology. This research culminates in a written paper. Students should have a well-defined topic in mind before registering for this course.
NOTE: Students who have received credit for PSYC 438 may not take this course for credit.

PSYC 439 *Directed Research in Psychology* (6 credits)

Prerequisite: PSYC 311, PSYC 316, and permission of the Department. Under the supervision of a faculty member, the student carries out an independent research project and reports it in writing. The area of study must be decided upon through consultation with the faculty member.
NOTE: Students who have received credit for PSYC 437 may not take this course for credit.

SPECIAL ADVANCED SEMINARS

Permission of the Department is required for registration in the Special Advanced Seminars (PSYC 498 and PSYC 499). These courses are normally open to Specialization and Honours students who are completing their final 30 credits. The usual minimal prerequisite for these specialized courses is PSYC 310, PSYC 311 (Strategies of Inquiry in Psychology, Research Experience in Psychology) and PSYC 315, PSYC 316 (Statistical Analysis I & II). Because the various topics offered are dealt with in depth at an advanced level, specific preparation through prior completion of a related course may also be required.

PSYC 498 *Special Advanced Seminar* (3 credits)

PSYC 499 *Special Advanced Seminar* (6 credits)

31.270 RELIGION

<p>Faculty</p>	<p><i>Chair</i> LYNDA CLARKE, Associate Professor</p> <p><i>Professors</i> MICHEL DESPLAND MICHAEL OPPENHEIM IRA ROBINSON</p> <p><i>Hindu Studies Chair</i> T.S. RUKMANI, Professor</p> <p><i>Associate Professors</i> RICHARD FOLTZ NORMA JOSEPH LESLIE ORR</p> <p><i>Assistant Professors</i> NAFTALI COHN CARLY DANIEL-HUGHES MARC DES JARDINS SHAMAN HATLEY</p> <p><i>Quebec and Canadian Jewish Studies Chair</i> NORMAN RAVVIN</p> <p><i>Senior Lecturer</i> DONALD BOISVERT</p> <p><i>Distinguished Professor Emeritus</i> SHEILA McDONOUGH</p>						
<p>Location</p>	<p><i>Sir George Williams Campus</i> Annex FA, Room: 101 514-848-2424 ext. 2065 http://religion.concordia.ca</p>						
<p>Department Objectives</p>	<p>The Department of Religion is dedicated to the academic study of various faiths and of social and cultural phenomena affected by religions. The curriculum includes the comparative study of many religious traditions of the world. At both the undergraduate and graduate levels, students are encouraged to develop an understanding of at least two religious traditions. Whatever the student's special focus, the informed appreciation of the beliefs and values of other cultures is considered an essential dimension of education for today's world.</p>						
<p>Programs</p>	<p><i>Students are responsible for satisfying their particular degree requirements.</i> <i>The superscript indicates credit value.</i> <i>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.</i> <i>The Department of Religion requires a statement of intent with the application for Honours programs.</i></p> <table> <tr> <td data-bbox="500 1213 917 1501"> <p>60 BA Honours in Religion</p> <p>12 In a language related to thesis; or in a related discipline such as Anthropology, Classics, English Literature, History, Philosophy, Sociology, Women's Studies</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>21 From area of primary concentration*</p> <p>6 From area of secondary concentration*</p> <p>6 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p> <p>6 RELI 410⁶</p> </td><td data-bbox="971 1213 1377 1856"> <p>60 BA Honours in Judaic Studies</p> <p>12 Chosen from: HEBR 210⁶, 241³, 242³; RELI 401³</p> <p><i>Students who demonstrate fluency in Hebrew by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.</i></p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>3 RELI 220³</p> <p>9 Chosen from RELI 301³, 326³, 327³, 328³</p> <p>9 Chosen from RELI 329³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³</p> <p>6 Chosen from RELI 223³, 224³, 225³, 226³, 302³, 316³, 318³, 319³, 320³, 321³, 322³, 323³, 324³, 325³ or other appropriate courses approved by the departmental advisor</p> <p>3 Chosen from RELI 332³, 334³, 335³ or other appropriate courses approved by the departmental advisor</p> <p>3 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p> <p>6 RELI 410⁶</p> </td></tr> <tr> <td data-bbox="500 1501 917 1711"> <p><i>*See areas of concentration.</i></p> <p>42 BA Major in Religion</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>21 From area of primary concentration*</p> <p>6 From area of secondary concentration*</p> <p>6 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p> </td><td></td></tr> <tr> <td data-bbox="500 1711 917 1856"> <p><i>*See areas of concentration.</i></p> <p>30 Minor in Religion</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>24 RELI elective credits (chosen in consultation with the departmental advisor)</p> </td><td></td></tr> </table>	<p>60 BA Honours in Religion</p> <p>12 In a language related to thesis; or in a related discipline such as Anthropology, Classics, English Literature, History, Philosophy, Sociology, Women's Studies</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>21 From area of primary concentration*</p> <p>6 From area of secondary concentration*</p> <p>6 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p> <p>6 RELI 410⁶</p>	<p>60 BA Honours in Judaic Studies</p> <p>12 Chosen from: HEBR 210⁶, 241³, 242³; RELI 401³</p> <p><i>Students who demonstrate fluency in Hebrew by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.</i></p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>3 RELI 220³</p> <p>9 Chosen from RELI 301³, 326³, 327³, 328³</p> <p>9 Chosen from RELI 329³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³</p> <p>6 Chosen from RELI 223³, 224³, 225³, 226³, 302³, 316³, 318³, 319³, 320³, 321³, 322³, 323³, 324³, 325³ or other appropriate courses approved by the departmental advisor</p> <p>3 Chosen from RELI 332³, 334³, 335³ or other appropriate courses approved by the departmental advisor</p> <p>3 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p> <p>6 RELI 410⁶</p>	<p><i>*See areas of concentration.</i></p> <p>42 BA Major in Religion</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>21 From area of primary concentration*</p> <p>6 From area of secondary concentration*</p> <p>6 RELI elective credits at the 300 or 400 level</p> <p>3 RELI 409³</p>		<p><i>*See areas of concentration.</i></p> <p>30 Minor in Religion</p> <p>6 Chosen from RELI 209³, 210³, 214³, 215³</p> <p>24 RELI elective credits (chosen in consultation with the departmental advisor)</p>	
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- 48 BA Major in Judaic Studies**
 12 Chosen from HEBR 210⁶, 241³, 242³, RELI 401³
Students who demonstrate fluency in Hebrew by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.
 6 Chosen from RELI 209³, 210³, 214³, 215³
 3 RELI 220³
 9 Chosen from RELI 301³, 326³, 327³, 328³
 9 Chosen from RELI 329³, 332³, 334³, 335³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³ or other appropriate courses approved by the departmental advisor
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 3 RELI 409³
- 30 Minor in Judaic Studies**
 6 Chosen from RELI 209³, 210³, 214³, 215³
 3 RELI 220³
 6 Chosen from RELI 301³, 326³, 327³, 328³
 6 Chosen from RELI 329³, 332³, 334³, 335³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³ or other appropriate courses approved by the departmental advisor
 9 RELI elective credits at the 300 or 400 level
- 42 BA Major in Southern Asia Studies**
 6 Required in first year: HIST 261³, RELI 215³
 3 Chosen from HIST 364³, 365³, 393³, 462³
 9 Chosen from RELI 224³, 225³, 226³, 318³, 340³, 341³, 342³, 346³, 347³, 348³, 350³, 384³
 6 Chosen from POLI 336³, 424³, 482³
NOTE: Any of the above courses may be substituted by a Special Topics course on Southern Asia in the same Department and approved by the departmental advisor.
 18 Chosen from any relevant courses in the core disciplines, including Special Topics courses (not already counted towards the
- above requirements) or courses dealing with Southern Asia in the Departments of Economics, Education, English, Geography, Planning and Environment, Sociology/Anthropology, the Faculty of Fine Arts, and the John Molson School of Business
- 30 Minor in Southern Asia Studies**
 6 Required: HIST 261³; RELI 215³
 6 Chosen from ECON 311³, 319³; HIST 364³, 365³, 393³, 462³; POLI 336³, 424³, 482³
 9 Chosen from RELI 224³, 225³, 226³, 318³, 340³, 341³, 342³, 346³, 347³, 348³, 350³, 384³; FMST 335³
NOTE: Any of the above courses may be substituted by an appropriate course on Southern Asia approved by the departmental advisor.
 9 Elective credits from any courses dealing primarily with Southern Asia, and Special Topics courses in any discipline with a Southern Asia theme or focus
- 24 Minor in Iranian Studies**
 3 RELI 318³
 3 Chosen from ANTH 323³ or ANTH courses dealing with the peoples and cultures of Iran or Persia and approved by the departmental advisor
 3 Chosen from CLAS 230³ or HIST 219³; HIST 240³, 241³, 467³; POLI 391³, 395³
 3 Chosen from RELI 224³, 316³, 317³, 319³, 383³, 411³
 6 Chosen from RELI 412³, 414³ or RELI courses dealing with the religions of Iran or Persia and approved by the departmental advisor
 6 Chosen from any courses dealing primarily with Iran or the Eurasian regions historically influenced by Iranian and Persian culture and approved by the departmental advisor
NOTE: Any of the above courses may be substituted by an appropriate course approved by the departmental advisor.

120 Bi-University Major in Judaic Studies

By agreement between the University and Bar-Ilan University, Ramat-Gan, Israel, students may be admitted to a 120-credit bi-university program designed to provide the academic base for prospective teachers in Jewish Studies programs at the Primary, Elementary, and Junior High School levels in Canada. Admission to the program depends upon acceptance by both universities. Successful applicants may spend up to the first 24 months (i.e., two Regular and two Summer sessions) at Bar-Ilan. The rest of the requirements for the degree must be completed at Concordia while the student is registered in the BA Major in Judaic Studies. Further information on the program may be obtained from the Department of Religion.

Areas of Concentration

- A. Asian Religions (21 credits)**
 21 Chosen from RELI 224³, 225³, 226³, 316³, 318³, 319³, 340³, 341³, 342³, 346³, 347³, 348³, 350³, 360³, 361³, 364³, 383³, 384³, 385³, 411³ or other appropriate courses approved by the departmental advisor
- B. Christianity (21 credits)**
 3 RELI 223³
- 12 Chosen from RELI 301³, 302³, 320³, 321³, 322³ or other appropriate courses approved by the departmental advisor
- 6 Christianity elective credits at the 300 or 400 level
- C. Judaism (21 credits)**
 6 RELI 220³, 301³
 6 Chosen from RELI 326³, 327³, 328³ or

- other appropriate courses approved by the departmental advisor
- 9 Judaic Studies elective credits at the 300 or 400 level
- D. Women and Religion (21 credits)**
- 3 RELI 233³
- 6 Chosen from RELI 381³, 382³, 383³, 384³, 385³, 391³, 392³ or other appropriate courses approved by the departmental advisor
- 9 Chosen from RELI 372³, 380³, 387³, 389³, 406³ or other appropriate courses approved by the departmental advisor
- 3 Women and Religion elective credits at the 300 or 400 level
- E. Islam (21 credits)**
- 6 Chosen from RELI 224³, 316³, 319³
- 12 Chosen from RELI 314³, 315³, 317³, 318³, 348³, 383³, 412³; from 316³ or 319³ if

- not taken to satisfy requirements in first category; from 411³ or 416³ if not taken to satisfy requirements in third category; or other appropriate courses approved by the departmental advisor
- 3 Chosen from RELI 411³ or 416³; or other appropriate courses approved by the departmental advisor

NOTE: Majors in Religion concentrating in Islam may count up to six credits of Arabic toward the Islam concentration. Honours students concentrating in Islam must take at least nine credits of Arabic, to be counted in the 12-credit "language related to thesis" category of the Honours program. Honours students may also count an additional six credits of Arabic toward their program.

NOTE: Students who demonstrate fluency in Arabic by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

RELI 209 *The Religious Imagination* (3 credits)

This course explores the conceptual elements that underlie the religious experience. These elements include the notion of the sacred, beliefs, cosmologies and myths, the origins and understanding of evil, ethics and salvation.

NOTE: Students who have received credit for RELI 211 may not take this course for credit.

RELI 210 *Religion in Practice* (3 credits)

This course focuses on the day-to-day practice of religious traditions. Included are the expression of religious experiences through art, music, and scripture; transmission of these religious expressions through ritual, worship and mystical/ecstatic practices; and the construction and maintenance of different types of religious authority and communal identities.

NOTE: Students who have received credit for RELI 211 may not take this course for credit.

RELI 214 *Religions of the West* (3 credits)

This course surveys the history, doctrines, institutions, and practices of religions that arose in Western Asia, including Judaism, Christianity, and Islam. The course examines contemporary forms of religious life in those parts of the world where these traditions have spread, as well as indigenous religions. The course explores the religious activities and experiences of both women and men within these various traditions.

NOTE: Students who have received credit for RELI 213 or RELZ 214 may not take this course for credit.

RELI 215 *Religions of Asia* (3 credits)

This course surveys the history, doctrines, institutions, and practices of religions that have arisen in and spread throughout Asia, including Hinduism, Buddhism, and the religions of China

and Japan. The course explores the religious activities and experiences of both women and men within these traditions.

NOTE: Students who have received credit for RELI 213 or RELZ 215 may not take this course for credit.

RELI 216 *Encountering Religions* (3 credits)

This course serves as an introduction to some of the religions of today's world, and explores several contemporary contexts where people of diverse religious backgrounds come into contact with one another.

NOTE: Students who have received credit for RELZ 216 or for this topic under an RELI 298 number may not take this course for credit.

RELI 218 *Wisdom, Traditions, and Enlightenment* (3 credits)

Most of the world's religions have formulated a set of teachings which convey an idea of the fundamental realities of the nature of the universe, and of the path by which humankind can come to a realization of these realities. Such a realization is frequently equated with the ultimate goal of enlightenment as liberation, or knowledge of/union with the transcendent. This course explores several of the religious traditions which have developed texts and practices leading to wisdom.

NOTE: Students who have received credit for RELZ 218 or for this topic under an RELI 298 or RELZ 298 number may not take this course for credit.

RELI 220 *Introduction to Judaism* (3 credits)

This course examines the continuities and changes in Jewish society, institutions, concepts, and traditions from ancient times to the present. It also provides an introduction to Jewish practice and belief in its contemporary diversity, including a survey of

the rituals, symbols, and ceremonies of Jews today.
NOTE: Students who have received credit for RELI 222 may not take this course for credit.

RELI 223 *Introduction to Christianity*
 (3 credits)

This course provides an introduction to key developments and enduring structures in the historical evolution of Christianity. It examines the variety of expressions of faith that are embodied by the Eastern churches (e.g. Greek and Russian Orthodox, Syrian) and the Western (e.g. Roman Catholic, Protestant), and traces the ways in which institutions, symbols, and rituals have in the past and continue today to carry forward the Christian tradition as a world religion in a variety of cultural contexts.

RELI 224 *Introduction to Islam* (3 credits)

This course explores the religious tradition of Islam through the beliefs and practices of the vast number of Muslims scattered throughout the world — in the Middle East, Indonesia, India and Pakistan, North America, and other places. It examines the scriptures and common rituals or “pillars” of the religion, as well as expressions of life and culture in the past and present such as the law (shariah), the Islamic arts, and the mystical orders.

RELI 225 *Introduction to Hinduism*
 (3 credits)

This course introduces students to some of the essential concepts of Hinduism that have been of enduring significance for the tradition — such as dharma (religious duty, as well as the spiritual/social order), moksha (the goal of liberation), and karma (action, understood in ethical as well as ritual terms). This course focuses on the ways in which these ideals have been embodied in particular scriptural, historical, and regional contexts by examining narrative literature, various practices of worship and asceticism, and contemporary interpretations.

RELI 226 *Introduction to Buddhism*
 (3 credits)

This course introduces students to the diversity of forms of Buddhism that have emerged in history and are practiced today. It examines those aspects that are shared in common by Buddhists all over the world, including reverence for the Buddha, support of the monastic order, and adherence to the Buddha’s teachings. The course explores the ways in which these ideals and beliefs are expressed through such Buddhist practices as worship, study, pilgrimage, and meditation.
NOTE: Students who have received credit for RELI 350 or 364 may not take this course for credit.

RELI 233 *Introduction to Women and Religion* (3 credits)

This introduction to the particular problems and issues in the study of women and religion uses case studies from various religious traditions. The course presents a survey of the different levels of participation, the complex ritual activities, and the intriguing divine imagery associated with

women that are found in many religious traditions. Questions pertaining to the contemporary feminist discourse on such topics as witchcraft, patriarchy, and goddess religions are also explored.

RELI 298 *Selected Topics in Religion*
 (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

RELI 300 *Cults and Religious Controversy in North America* (3 credits)

This course takes a sociological and historical approach towards understanding new religious movements (NRMs), popularly known as “cults.” The course examines the reasons for their controversial status in society, and undertakes a survey of the beliefs, rituals, leadership, membership, recruitment strategies, and social organization of a number of specific NRMs.

NOTE: Students who have received credit for RELI 217 or for this topic under an RELI 298 number may not take this course for credit.

RELI 301 *Biblical Studies I: The Hebrew Bible* (3 credits)

An introduction to the methods and results of biblical scholarship with regard to the history, culture, and religion of ancient Israel. Particular attention is given to the major religious affirmations and theological concepts of the Hebrew Bible that have become central in the subsequent development of Judaism.

RELI 302 *Biblical Studies II: Christian Origins* (3 credits)

A critical survey of Christian origins, this course focuses on New Testament literature and considers historical setting, history of text, religious and cultural significance. Attention is paid to extra-canonical literature and other relevant sources.

RELI 310 *Self and Other: Exploring Value Choices in Personal and Interpersonal Relations* (3 credits)

This course considers ethical issues arising in the context of personal and interpersonal relations, families and friendships, and health and medical care. These issues are discussed in relation to traditional and contemporary moral perspectives, both religious and non-religious. Topics covered may vary from year to year, but may include discussions of conscience and career, privacy, sexual relations, harassment, substance abuse, abortion, euthanasia, and gay and lesbian relations.

NOTE: Students who have received credit for RELI 331 or RELZ 310 may not take this course for credit.

RELI 312 *Justice and Social Conflict in a Globalized World* (3 credits)

This course considers ethical issues arising in the context of social, legal, and political relations. These issues are discussed in relation to both traditional and contemporary moral perspectives, both religious and non-religious. Topics covered typically include discussions of social and economic inequality, welfare, poverty, just punishment,

business ethics, public ethics, economic development, and sustainable development.

NOTE: Students who have received credit for RELI 332 or RELZ 312 may not take this course for credit.

RELI 313 *Zoroastrianism* (3 credits)

Zoroastrianism, though counting no more than a few hundred thousand practitioners today, is one of the most significant traditions in the history of religions, providing a world-view and ethical framework later adopted by Judaism, Christianity, and Islam. This course covers the 3,000-year history of Zoroastrianism, including controversies surrounding its origins, its contributions to other religions, its eventual decline, and the Zoroastrian diaspora of contemporary times. Readings from the Avesta and other texts are in English translation.

RELI 314 *Muslim Cultures of North America* (3 credits)

This course traces the appearance and growth of Muslim presence in the United States and Canada, from the first immigrant communities in the late nineteenth century to the present, and the more recent trend of conversion among North Americans. Issues facing Muslim communities such as integration, discrimination, and education are investigated, as well as the emergence of distinctively North American forms of Islamic thought and lifestyle.

NOTE: Students who have received credit for this topic under an RELI 498 number may not take this course for credit.

RELI 315 *Muslim Cultures in Southern Asia* (3 credits)

About one-third of the world's Muslims live in India, Pakistan, or Bangladesh, making Southern Asia the world region with the largest proportion of Muslims. Yet many aspects of Muslim belief and practice in these countries have a distinctively South Asian flavour and in some cases derive from regional cultural traditions. This course looks at the history of Muslim presence in Southern Asia, including its extensive political and cultural impact from the seventh century to the present, and investigates the complexities of communal identity over the course of that history. The role of Sufism and Muslim contributions to South Asian literature, art, architecture, and music are also explored.

RELI 316 *Classical Islam* (3 credits)

The course explores the various aspects of Muslim civilization from its initial spread from Arabia to Spain, sub-Saharan Africa, India, and China, up to the age of the Ottoman, Safavid, and Mughal empires in the sixteenth and seventeenth centuries. Special attention is given to the emergence of schools of law, theology, philosophy, and mystical orders, as well as the literature, arts, and architecture of diverse Muslim societies.

RELI 317 *Sufism* (3 credits)

The course explores the emergence and development of Islamic mysticism beginning with pious individuals in the eighth century and coalescing into institutional forms by the tenth. Attention is given to the teachings of key mystical figures, the Sufi

orders, and the social role of Sufism. Sufi poetry, music, and other forms of devotion and practice are studied in the contexts of diverse Muslim societies over the past 1,000 years up to the present.

NOTE: Students who have received credit for this topic under an RELI 379 number may not may not take this course for credit.

RELI 318 *Shiite Islam* (3 credits)

This course explores the history and ideas of Shiism, from the inception of the movement to the present. The various sects are introduced and treated, including the Twelvers, Ismailis, Zaydis, Druze, and Alawites. Basic Shiite doctrines such as crypto-religion (*taqiyyah*), esoterism, messianism, quietism, and syncretism are considered in comparison with other religions. Study of the modern period treats subjects such as theocracy, political activism, and martyrdom. The course examines the centres of Shiite population: Southern Asia, Iran, Iraq and the Gulf, Lebanon, and North America.

RELI 319 *Modern Islam* (3 credits)

This course surveys some of the main questions raised by modernity for Muslims and the various types of responses to it that Muslims have sought to formulate and put into practice, particularly in terms of how knowledge is defined, how society is governed, and how men and women are to relate to each other and to non-Muslims.

RELI 320 *Catacombs, Crusades and Convents: History of Christianity I* (3 credits)

This first course of the sequence on Christianity, historically considered, examines the life and thought of Christians as a minority in the Graeco-Roman world and their transition to a position of power. The course studies the rise of monasticism after the collapse of the Roman Empire, the construction of medieval Christianity and its flowering with the founding of the Friars amid the great theological syntheses of the thirteenth century. Saint Augustine, Saint Francis and Aquinas are the key figures studied.

NOTE: Students who have received credit for RELI 303 may not take this course for credit.

RELI 321 *Mystics, Heretics and Reformers: History of Christianity II* (3 credits)

This second course of the sequence on Christianity, historically considered, focuses on the period from 1300 to 1650 and examines the many groupings for alternatives to the hierarchical synthesis proposed by great minds and leading authorities. It concludes with a study of the new orthodoxies established by Protestant reformers (Luther and Calvin) and by the Council of Trent in the sixteenth century.

NOTE: Students who have received credit for RELI 304 may not take this course for credit.

RELI 322 *From Toleration to Political and Social Activism: History of Christianity III* (3 credits)

This third course of the sequence on Christianity, historically considered, examines the rise of the

doctrine of toleration and its progressive implementation by modern nation states. Attention is focused on the transformations that this imposed on Christian belonging and Christian thinking. The course looks at the evolution of the churches from the mid-seventeenth century up to the contemporary period, with particular attention to attitudes toward women, education of children, poverty, slavery and missions.

NOTE: Students who have received credit for RELI 306 may not take this course for credit.

RELI 323 *Honouring the Gods and Feasting with Friends: The Ancient Mediterranean* (3 credits)

This course explores various dimensions of social and religious life among Greeks, Romans, and others in the ancient Mediterranean. With the help of both archaeological and literary sources, the course examines the concrete ways in which ordinary women and men maintained fitting relations with their gods, with their rulers, and with one another, illuminating the religious and cultural contexts in which early Judaism and Christianity emerged.

RELI 324 *On the Margins of Christianity: Heresy, Dissidence and the End of the World* (3 credits)

This course investigates marginal forms of Christianity which have found themselves ignored, excluded, or suppressed by more mainstream Christian groups and institutions. The course explores aspects of the history of heretical movements, mysticism, and apocalypticism. It looks at the world-views and practices associated with such marginal forms of Christianity, placing religious traditions and movements within their broader social, cultural, and political contexts. *NOTE: Students who have received credit for RELI 308 may not take this course for credit.*

RELI 325 *Leaders, Rebels and Saints* (3 credits)

This course, which varies in focus from year to year, investigates the lives of controversial or influential women and men in the history of different religious traditions. Going beyond mere biography, the course situates particular figures within their social and cultural contexts, while dealing with how such prominent figures were viewed, portrayed, and used by others. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 308 may not take this course for credit.

RELI 326 *Ancient Judaism* (3 credits)

This course examines the variety of Judaic expression in the period of Late Antiquity. This includes the concepts, institutions, and literature of both rabbinic and non-rabbinic Judaism as well as their biblical background. The development of rabbinic systems of thought and law, as well as their expression in rabbinic literature, are considered.

RELI 327 *Medieval Jewish Thought and Institutions* (3 credits)

This course examines the intellectual, religious,

and social history of selected Jewish communities during the Middle Ages. Both internal Jewish developments and changing Jewish relations with their non-Jewish neighbours are considered.

RELI 328 *Modern Judaism* (3 credits)

This course surveys the major historical events, sociological and political forces, and intellectual currents which shaped Judaism in the modern period as well as the ways that Jewish communities responded to these forces. Among the topics explored are Emancipation, forms of religious adjustment, anti-semitism, the experience of Jewish communities in Russia and North America, the Holocaust, and Zionism and the state of Israel.

RELI 329 *Israel: Religion and State* (3 credits)

This course studies the emergence and development of the state of Israel, from the beginnings of the Zionist movement to the present time. It also explores the major political, social, and intellectual developments in both the pre- and post-state periods. The role of Judaism within the changing state is a primary focus.

RELI 331 *Literature and the Holocaust* (3 credits)

Religious, historical, literary, and political contexts have been applied to come to terms with the events of the Holocaust. All of these are relevant as students read important and provocative novels dealing with such issues as ethics, the relationship between art and history, the use of humour and popular cultural forms, as well as the way that storytelling helps direct our understanding of events that are often said to be incomprehensible. The wider impact of fiction dealing with the Holocaust on the popular media, including film, CD ROMs, video, and news reporting, is also considered.

NOTE: Student who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 332 *Canadian Jewish Literature* (3 credits)

This course explores the Jewish voice in Canadian literature which can be seen to be the first opening toward a multicultural tradition in this country. Writers such as A.M. Klein, Mordecai Richler, Henry Kreisel, and Leonard Cohen created an English-language tradition of Jewish writing that is varied, provocative, and lively. Students look at novels, short stories, some poetry, memoir, and criticism. Students also consider non-Jewish authors, such as Gwethalyn Graham and Mavis Gallant, who were among the first to write about Jewish characters for an English-speaking Canadian audience. This course allows students to consider issues related to Canadian identity and culture, ethnic studies, and multiculturalism alongside literary questions.

NOTE: Students who have received credit for this topic under an RELI 335 number may not take this course for credit.

RELI 334 *Introduction to Canadian Jewish Studies* (3 credits)

This course introduces the history of the Canadian Jewish community and the themes, personalities, and media which have contributed to Canadian Jewish culture and life. Students explore historical texts, novels, films, and museums in order to gain a sense of the particularity of Jewish culture in Canada and its place in the Canadian multicultural ethic. The relationship of Canadian Jewry to communities in the United States, Europe, and Israel, and to its own past, is also examined.

RELI 335 *Jewish Cultures of Canada* (3 credits)

This course offers students a detailed view by way of history, local culture, creative life, and religious activity of the various centres of Jewish culture in Canada. Instructors make use of a variety of materials to supplement course texts, for example: films, visiting speakers, local tours, and archival resources.

RELI 336 *Sephardic Judaism* (3 credits)

This course studies the social and spiritual life of the various communities within the Sephardi world. Topics include Judaism under Islam; the expulsion and dispersion; Sephardi-Maghrebi Judaism; modern times in Arab lands; Sephardi life in the new world, Europe, and Israel. In addition, the philosophical, Halakic, biblical, and mystical works of Sephardi Jews are examined.

RELI 338 *Holocaust: Historical Circumstances* (3 credits)

This course examines the historical circumstances that made possible the systematic destruction of European Jewry in the years 1939-45, as well as the process of destruction and the Jewish and world responses to that destruction.

NOTE: Students who have received credit for RELI 357 may not take this course for credit.

RELI 339 *The Impact of the Holocaust on Religious Thought* (3 credits)

This course examines the ramifications of the Holocaust in Jewish and Christian thought. Issues discussed include the problem of evil; suffering; the election of Israel; God's relation to the course of human events.

NOTE: Students who have received credit for RELI 358 may not take this course for credit.

RELI 340 *Veda and Upanishads: Fountainhead of Hindu Thought* (3 credits)

This introduction to the religious concepts, practices, and wisdom of ancient India is based on the literature of the Vedic period, including the Upanishads. The course examines the contribution of various aspects of the Vedic tradition to the development of Hinduism, and explores the interaction among religions in the ancient period.

RELI 341 *Hindu Sadhana: From Yajna to Yoga* (3 credits)

Hinduism has evolved many paths to come in touch with the divine. It presents a philosophy of

transformation of the individual through various practices, so that there dawns a realization of transcendent reality. This course examines some of the *sadhanas* — such as sacrifice, reasoning and wisdom, and yogic samadhi — which developed in the classical period of Hinduism.

RELI 342 *The Golden Age of Bhakti* (3 credits)

The medieval period of Hinduism is the period of Bhakti, or devotion. This course looks at the Bhagavadgita, as well as popular regional literature and the lives of devotees such as Mirabai, Tukaram, Tulsidas, Kabir, Andal, and Mahadeviyakka. The course also examines the Vaishnava, Shaiva and Shakta traditions of devotion.

RELI 346 *From Rammohun Roy to Gandhi and After* (3 credits)

This course explores, in the first instance, the contribution made by leading Hindu thinkers from Rammohun Roy to Gandhi to harmonize such contemporary values as social welfare, equality, humanism, and spiritual experience with parallel antecedents of Hinduism preserved in Sanskrit texts. This course also focuses on how post-Gandhian movements such as Swadhyaya (reflective self-study) proposed by Pandurang Sastri Athavale, and Chipko (protection of trees) proposed by Bahuguna, have promoted meaningful religious dialogue in order to realize the ideals of equality, social progress, and environmental concerns.

NOTE: Students who have received credit for RELI 343 or 351 may not take this course for credit.

RELI 347 *Religion and the Arts in South and Southeast Asia* (3 credits)

This course is an introduction to the religious art of South and Southeast Asia, including an examination of Hindu, Buddhist, and Islamic architecture, sculpture, painting, and performing arts. The course examines the ways in which sacred art is related to myth and symbol, religious values and goals, ritual, religious experience, and social and political realities.

RELI 348 *Religion and Society in South and Southeast Asia* (3 credits)

This historical and sociological examination of religion's impact on and intersection with the structures of South and Southeast Asian society, explores such issues as caste and class, gender and family relations, links between religion and the state, and relations between Hindu, Buddhist, and Muslim communities.

RELI 350 *Theravada Buddhism* (3 credits)

This course examines the early history, doctrine, institutions, and practices of Buddhism in India, and follows the development of Theravada Buddhism in the countries of Southeast Asia up to the present day.

NOTE: Students who have received credit for RELI 314 may not take this course for credit.

RELI 352 *Topics in Diaspora Studies* (3 credits)

This course treats topics related to the diaspora

of religious communities. Topics covered change from year to year, and may include an examination of the history and dynamics of diaspora of a particular community (e.g. the Jewish diaspora, the Hindu diaspora), or the comparative investigation of a particular theme in diaspora studies. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 346 may not take this course for credit.

RELI 353 *Religion and the Arts in the West* (3 credits)

This course explores the way in which the fine arts, literary arts, and performing arts have given expression to, and shaped the experience of, religious realities in the history of the West, and also considers the ways in which, in a more recent and contemporary context, art may be seen as engaging with aspects of divinity and spirituality.

NOTE: Students who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 354 *Religion and Film* (3 credits)

This course examines films that deal with religious themes — explicitly or implicitly — and provides an opportunity to analyse the language of film as a form of narrative through which cultural and religious ideas are transmitted.

NOTE: Students who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 360 *Religions of China* (3 credits)

This course concentrates on the historical development of Chinese religions from the earliest periods of Chinese civilization to contemporary times. It investigates the relationships among the classical religious traditions as portrayed through scriptures, commentaries, and rituals. Focus is placed on the unfolding of the five great religious currents of China: the classical imperial cults, Daoism, Confucianism, Buddhism, and popular cults.

NOTE: Students who have received credit for RELI 349 may not take this course for credit.

RELI 361 *Religions of Japan* (3 credits)

This course uses a historical approach to understand the development of Japanese religious traditions. It investigates popular Japanese cults and religions, the assimilation of foreign religious thought and practices, and the implantation of Buddhism, Confucianism, and other models from China. Religious sectarianism, state-regulated religious schools, cults, and the role of religion in the establishment of Japanese national identity are also studied.

NOTE: Students who have received credit for RELI 349 may not take this course for credit.

RELI 364 *Mahayana Buddhism* (3 credits)

This course studies the origins and evolution of the Mahayana Buddhist in India, and the spread and growth of various Mahayana traditions in East Asia. It examines developments in texts, doctrine, philosophy, ethical ideals, practices (worship and meditation), and institutions.

RELI 365 *Religion and Literature* (3 credits)

This course provides an opportunity to study a selection of literary works (such as novels and poems) with a focus on the religious issues raised by their content and their form. The course explores the relations between current trends in literary criticism and the interpretation of religious language, with its use of symbol, metaphor, parable, and myth.

RELI 367 *Ritual, Ceremony and Celebration* (3 credits)

Ritual is one of the essential components of religious practice. This course explores the place and function of ritual in a variety of religious traditions, both historical and contemporary. It looks at theoretical understandings of religious ritual, and examines such rituals as sacrifice, rites of passage, worship and ascetic and meditative practices in their theological, social, and cultural contexts.

RELI 368 *Religion in Native Traditions* (3 credits)

This overview looks at the many diverse religious traditions of the First Nations populations in North America. The course examines the sacred stories, ceremonial patterns, life cycle rituals, and religious activities in their varied expressions. Consideration is given to the historical interaction of native government with religious practices.

RELI 369 *Religion and Alternative Medicine* (3 credits)

This course explores popular forms of alternative medicine and religious healing rituals. It examines the historical and cultural relationships between religious belief, spiritual practices, and types of healing outside the discourses of conventional medical practice. Some of the major issues addressed include miracles and the miraculous, the efficacy of prayer and meditation, gender and alternative modes of healing, and the role of parallel forms of medical knowledge and practice in religious communities.

NOTE: Students who have received credit for this topic under an RELI 298 number may not take this course for credit.

RELI 370 *Topics in Comparative Religion* (3 credits)

This course treats various topics in comparative perspective, examining religious themes as they are represented in two or more religious traditions. Topics covered change from year to year, and may include comparative religious law, comparative ritual, comparative philosophy, or comparative ethics. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 309 or 369 may not take this course for credit.

RELI 371 *Religion and Healing* (3 credits)

This course looks at the interactions between religious beliefs and practices and healing beliefs and practices, both in traditional and contemporary settings. Topics typically include examinations of shamanism, folk medicine, spiritual healing, complementary and alternative

medicine, and the relations between faith and established medical practices. Topics are discussed in relation to various religious traditions.

RELI 372 *The Human Body in Religious Thought and Practice* (3 credits)

This study of religious attitudes to the human body focuses on the body as a foundation for religious symbolism, religious community and identity, ritual, and religious experience. The course examines these problems with reference to various religious traditions. Issues examined include purification of the body; eating; mortification and mutilation of the body; attitudes towards dead bodies and physical immortality; attitudes towards bodies as gendered; embodied spirituality and incarnation.

RELI 373 *Introduction to Mysticism* (3 credits)

This course examines the concepts of mysticism articulated by contemporary scholarship. It then looks at mystical texts and experiences from a variety of religious traditions both comparatively and with respect to their position within the dynamic of their own traditions.

RELI 374 *Religion and Science* (3 credits)

How has religion viewed science, and how has science viewed religion? This course explores the relationship between religion and science both within particular religio-cultural contexts and in comparative perspective. The contexts considered may include those belonging to Christian, Jewish, Muslim, Hindu, or other Asian worldviews. Points of conflict and contact between scientific and religious discourses are also explored.

NOTE: Students who have received credit for RELZ 374 may not take this course for credit.

RELI 375 *Religion in Canada* (3 credits)

This course examines the role religion has played in the development of Canada as well as its influence in Canadian society, politics, and culture. Attention is paid as well to the interaction of different religious groups in the Canadian context.

NOTE: Students who have received credit for RELI 363 may not take this course for credit.

RELI 376 *Psychology of Religion* (3 credits)

This survey looks at various perspectives and methods used in psychology as they are relevant to understanding the role and value of religion for the individual. The course examines the ideas of such figures as William James, Freud, and Jung, among others, and considers such topics as intense religious experience, conversion, images of God, myth and symbol, ritual, and religious and moral development.

RELI 377 *Topics in Religious Interaction* (3 credits)

This course treats topics relating to contacts between and interactions among different religious traditions. Topics covered change from year to year, and may include an examination of religions in contact within a particular historical or contemporary setting, or the comparative

investigation of a particular theme, such as syncretism, dialogue, religious war, or religious encounter in the context of colonialism. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 367 may not take this course for credit.

RELI 378 *Death and Dying* (3 credits)

This course provides a comparative perspective on the variety of conceptions and practices related to death and dying that are found in different world religions. In addition, the course considers how people in contemporary North American society utilize traditional religious concepts and rituals, scientific understandings and medical procedures, or innovative combinations of ideas and practices with which to cope.

RELI 379 *Topics in the Study of Mysticism* (3 credits)

This course treats topics in the study of mysticism. Topics covered change from year to year, and may include the examination of the mystical tradition within a particular religious context (e.g. Christian mysticism, Hindu mysticism, Islamic mysticism) or the comparative investigation of a particular theme in the study of mysticism. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 307, 317, 344, or 397 may not take this course for credit.

RELI 380 *Sexuality in the History of Religions* (3 credits)

This course examines, from a comparative and historical perspective, the interplay between religion and sexuality. It looks at the development of attitudes towards sexuality within diverse religious traditions, and religious manifestations of sexuality. Topics include, among others: human reproduction, gender roles and identity, birth control, abortion, celibacy, sexual variance, and homosexuality.

RELI 381 *Women and Religion: Judaism* (3 credits)

This course explores the status and religious roles of women within the Judaic tradition. Its focus is on the practice of the religion, especially the ritual and legal spheres. The relationship between common practice, popular attitudes, and formal legal principles is examined in order to inquire into issues of gender and religion.

RELI 382 *Women and Religion: Christianity* (3 credits)

The focus of the course is the role of women and the conflicting patterns of gender construction in the history of Christianity. Through a critical use of primary and secondary sources, both visual and textual, the course explores the sources of women's power and subordination in order to illuminate the relationship between gender and the Christian tradition.

RELI 383 *Women and Religion: Islam* (3 credits)

This course explores past and present debates

among Muslims about the ideal status of women in Islam. The historical and legal background — the material of the debate — is examined first. The class then considers how a variety of discourses, ranging from conservative to Muslim-feminist, treat and manipulate this material.

RELI 384 *Women and Religion: Hinduism*
(3 credits)

This course examines the roles of women in Hindu religious life. The course focuses particularly on the impact of historical change; on the activities and experience of women in India, in the course of the last three thousand years; and on the relation between Hindu conceptions of "the feminine" and women's situation.

RELI 385 *Women and Religion: Buddhism*
(3 credits)

This course explores the situation, activities, and experiences of women within Buddhism. Using an historical approach, the course examines the circumstances of women in early Buddhism, and traces subsequent developments in India, Tibet, Southeast Asia, the Far East, and the West, up to the present day.

RELI 386 *Witchcraft, Magic and Religion*
(3 credits)

This course approaches the study of magic, witchcraft, and religion from a variety of perspectives. Taking examples from indigenous cultures, the ancient world, medieval Europe, the early modern period and contemporary movements, the practices and rituals that have been labelled magic or witchcraft are examined, along with the responses to them. The course explores how magicians and witches view themselves, how different cultures relate to them, and how magic, witchcraft, and religion merge and diverge.

NOTE: Students who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 387 *Goddesses and Religious Images of Women*
(3 credits)

This comparative survey of female divinity and feminine imagery studies various religious traditions. Among the issues to be explored are the imaging of goddesses as mothers; the conception of forces like fertility, energy, materiality, and knowledge as feminine; the correspondences and relations between goddesses and women; and the contemporary feminist recovery of the Goddess.

RELI 389 *Women's Ritual: Expressions and Expertise*
(3 credits)

This comparative examination of the contexts and patterns of women's ritual lives looks at various religious traditions. In addition to considering women's activities in formal or public ritual contexts, this course focuses especially on the importance of women as ritual specialists and authorities in the context of the home.

RELI 391 *Women in Jewish History: Ancient and Medieval*
(3 credits)

This course examines the lives and experiences of Jewish women from the late antique period

through and including the medieval. Using primary and secondary materials, the class inquires into the varieties of women's encounter with history. The differences between communal standards and individual exploits are highlighted, as are geographic distinctions. Through a critical reading of Jewish sources and historians' accounts, questions of methodology and theory are addressed.

RELI 392 *Women in Jewish History: Modern*
(3 credits)

This course examines the lives and experiences of Jewish women in the modern period. The immigrations to North America and the subsequent development of the community provide the framework for investigating Jewish women's encounter with and contribution to modern Jewish life. The main focus is on North America, using primary sources such as fiction, biography, and autobiography. The influence of denominational differences and feminist challenges complete the survey.

RELI 394 *History of Satan: Evil Personified in Judaism and Christianity*
(3 credits)

This course investigates the origins, development, and significance of personified evil, that is Satan and his demons, in early Judaism and in the history of Christianity. Consideration is given to some of the most important literary and visual depictions of this figure and his story from the ancient world through the Middle Ages to present day. The course sheds light on how intellectuals thought of this figure and also how Satan came to play an important role in popular culture down through the centuries.

NOTE: Students who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 395 *Studies in Jewish Thought and Philosophy*
(3 credits)

By means of the analysis of particular issues, thinkers, and texts, this course explores the character of Jewish philosophy. Issues in Jewish philosophy that may be examined include the relationship between faith and reason, the understanding of God, Judaism and the inter-human, the powers and limits of philosophical understanding.

RELI 396 *Food and Religion*
(3 credits)

This course examines food cultures and food rituals and explores religious meanings and the making of religious identities. The preparing and sharing of food defines religious community and expresses religious values. In looking at food in several world religions, this course focuses on how food can serve as a medium of transmission and transaction, and on the roles that women and men, gods and ancestors, and other beings and forces have in this network.

NOTE: Students who have received credit for this topic under an RELI 398 number may not take this course for credit.

RELI 398 *Selected Topics in Religion*
(3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

RELI 401 *Studies in Hebrew Texts*
(3 credits)
Prerequisite: HEBR 210, 241, 242; or permission of the Department. A reading of representative selections of classical and modern Hebrew texts. Attention is paid to the historical and philosophical background of the texts.

RELI 403 *Questions and Controversies in Christianity* (3 credits)
Prerequisite: Six credits in 300-level Christian Studies courses or permission of the Department. This course, which varies in focus from year to year, explores themes that have been of critical significance and the focus of contest and debate within the history of Christianity. This course situates such conflicts and discussions among Christian groups, individuals, institutions, and traditions within broader social, political, and cultural contexts. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for RELI 362 may not take this course for credit.

RELI 406 *Feminist Hermeneutics and Scripture* (3 credits)
This feminist critical reading of sacred texts focuses on the rediscovery of women in holy scriptures. This course is for the advanced student able to work with primary sources. Different texts may be considered such as Hebrew Bible, New Testament, Koran, Hindu and Buddhist scriptures.

RELI 407 *Topics in Judaic Studies*
(3 credits)
This course deals with advanced topics in Judaic Studies. Topics covered change from year to year, and may include Jewish law, Jewish ritual, and Jewish mysticism. Specific topics for this course will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for RELI 394 or 397 not take this course for credit.

RELI 409 *Methodology and the Study of Religion* (3 credits)
Prerequisite: Permission of the Department. This course examines the various methodological approaches that inform the comparative study of religion. Questions investigated pertain to the collection and interpretation of evidence, the types of resources available and techniques used, the complex differences between men's and women's religious experiences and expressions, as well as the impact of significant theoretical approaches on the analysis of religion.

RELI 410 *Honours Thesis* (6 credits)
Prerequisite: Honours standing in Religion or Judaic Studies. The student works with an individual faculty member in a particular field of religious or Judaic studies. Students are asked to produce a sustained piece of written work to be read by their advisor and at least one other member of the Department.
NOTE: Students who have received credit for RELI 499 may not take this course for credit.

RELI 411 *Studies in Qur'an and Hadith*
(3 credits)
Prerequisite: Any two Religion courses in Islam or permission of the Department. Selected readings from the Qur'an and Hadith serve as a basis for examination of issues such as historical background, text formation, and function of the scriptures within the tradition, including the Law. Classical and modern exegeses of selected passages are also considered. Knowledge of Arabic is not necessary, but the original texts will be made available to students with knowledge of the language.

RELI 412 *Religions of Iran* (3 credits)
Iran is one of the major birthplaces of world religions, including Zoroastrianism, Manichaeism, and the Baha'i faith, as well as numerous minor sects. Iranian culture has also played a major role in informing and transforming Judaism, Christianity, Buddhism, and Islam. This course covers the long history of Iranian civilization in terms of the religious life of Iranians and the many other peoples who have been affected and influenced by Iranian society from the Mediterranean world to South and East Asia.
NOTE: Students who have received credit for this topic under an RELI 498 number may not take this course for credit.

RELI 413 *Classical Persian Literature*
(3 credits)
Readings of selected poetry and prose from the rise of classical Persian until the nineteenth century allow students to explore the language, thought, and culture of Iranian civilization. Tutorial for advanced students; knowledge of Persian required.

RELI 414 *Rumi and the Masnavi* (3 credits)
Students explore Islamic mysticism through the thirteenth-century masterpiece of Persian mystical lore, the *Masnavi* of Jalal al-Din Rumi. Perspectives from Sufism, Islamic doctrine, and comparative mysticism are applied in selected readings. Although the course is given in translation, native speakers of Persian are invited to read the original texts.

RELI 416 *Studies in Muslim Civilizations*
(3 credits)
The Muslim world is composed of many diverse cultures, each with its own distinct history, patterns of society, and religious expressions.

RELI 496 *Independent Studies in Religion* (3 credits)
Prerequisite: Permission of the Department. The student works with an individual faculty member in a particular field of religious or Judaic studies, as a reading course.
NOTE: Students who have received credit for RELI 495 may not take this course for credit.

RELI 498 *Advanced Topics in Religion*
(3 credits)
Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.310

SOCIOLOGY AND ANTHROPOLOGY

Faculty	Chair FRANCES SHAVER, <i>Professor</i>	SYLVIA KAIROUZ KATJA NEVES-GRACA				
	Sociology <i>Professors</i> DANIELLE GAUVREAU GREG NIELSEN WILLIAM C. REIMER ANTHONY J. SYNNOTT	<i>Lecturer</i> HUSSEIN MERHI				
	<i>Associate Professors</i> MEIR AMOR DANIEL DAGENAIS VALÉRIE DE COURVILLE NICOL SHELLEY Z. REUTER BART SIMON JEAN-PHILIPPE WARREN	Anthropology <i>Professors</i> VERED AMIT SALLY COLE CHANTAL COLLARD HOMA HOODFAR DAVID HOWES CHRISTINE JOURDAN				
	<i>Assistant Professors</i> LAURA HUEY	<i>Associate Professor</i> MARIE-NATHALIE LEBLANC				
		<i>Assistant Professor</i> MAXIMILIAN FORTE				
Location	Sir George Williams Campus Hall Building, Room: H 1125-44 514-848-2424 ext. 2140					
Department Objectives	Sociology and Anthropology examine the processes of social and cultural life in diverse human societies, past and present. These core disciplines of the social sciences are closely linked to the humanities, since various aspects of culture and society concern them all. The celebration of diversity — cultural, ethnic, and racial — among the students and faculty as well as in the subject matter, is a hallmark of the Department. It offers a full range of undergraduate programs, including joint programs in both disciplines.					
Programs	<p><i>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value.</i></p> <p><i>Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the departmental Honours advisor normally following the completion of thirty credits.</i></p> <table><tr><td>60 BA Honours in Sociology 3 SOCI 203^{3*} 6 SOCI 212^{3**}, 213³ 3 200-level ANTH credits 6 SOCI 300⁶ 6 SOCI 310⁶ 6 SOCI 402³, 403³ 6 SOCI 409⁶ 6 Chosen from SOCI 410⁶, 415⁶ 18 SOCI elective credits (maximum of six credits at the 200 level)</td><td>60 BA Joint Specialization in Anthropology and Sociology See Anthropology</td></tr><tr><td>60 BA Specialization in Sociology 3 SOCI 203^{3*} 6 SOCI 212^{3**}, 213³ 3 200-level ANTH credits 6 SOCI 300⁶ 6 SOCI 310⁶</td><td>42 BA Major in Sociology 3 SOCI 203^{3*} 6 SOCI 212^{3**}, 213³ 3 200-level ANTH credits 6 SOCI 300⁶ 6 SOCI 310⁶ 18 SOCI elective credits (maximum of six credits from the 200 level)</td></tr></table>		60 BA Honours in Sociology 3 SOCI 203 ^{3*} 6 SOCI 212 ^{3**} , 213 ³ 3 200-level ANTH credits 6 SOCI 300 ⁶ 6 SOCI 310 ⁶ 6 SOCI 402 ³ , 403 ³ 6 SOCI 409 ⁶ 6 Chosen from SOCI 410 ⁶ , 415 ⁶ 18 SOCI elective credits (maximum of six credits at the 200 level)	60 BA Joint Specialization in Anthropology and Sociology See Anthropology	60 BA Specialization in Sociology 3 SOCI 203 ^{3*} 6 SOCI 212 ^{3**} , 213 ³ 3 200-level ANTH credits 6 SOCI 300 ⁶ 6 SOCI 310 ⁶	42 BA Major in Sociology 3 SOCI 203 ^{3*} 6 SOCI 212 ^{3**} , 213 ³ 3 200-level ANTH credits 6 SOCI 300 ⁶ 6 SOCI 310 ⁶ 18 SOCI elective credits (maximum of six credits from the 200 level)
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- 42 BA Major in Community and Ethnic Studies***
 12 ANTH 202³; SOCI 203^{3*}, 212^{3**}; ANTH/ SOCI 230³
 6 SOCI 310⁶
 6 Chosen from ANTH 311³, 312³; SOCI 300⁶
 12 Chosen from ANTH 303³; SOCI 331³, 336³, 437³; ANTH/SOCI 276³ 352³, 353³, 379³, 380³, 381³, 385³
 3 Chosen from cognate courses outside the Department which reflect an appropriate cross-cultural perspective and/or subject matter. This course will be chosen in consultation with the advisor.
 3 ANTH/SOCI 433³

*Admission suspended for 2008-09.

- 30 Minor in Sociology**
 3 SOCI 203^{3*}
 6 200-level SOCI credits
 6 Chosen from SOCI 300⁶, 310⁶
 6 SOCI elective credits
 9 300-level SOCI credits

*Students exempted from SOCI 203³ are required to take three credits from SOCI 200- and 300-level courses.

**Students exempted from SOCI 212³ are required to take three credits from SOCI 200- and 300-level courses.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are open to students who have successfully completed SOCI 203 or equivalent, plus at least three credits of 200-level Sociology courses. Students in related disciplines who wish to take cognate courses in Sociology may apply to the Sociology undergraduate advisor for waiver of prerequisites on the basis of equivalent background.
- (2) 400-level courses are open to students who have successfully completed at least six credits from 300-level SOCI courses.
- (3) Entry requirements for Sociology/Anthropology cross-listed courses depend on the discipline through which the course is entered. Once students have taken a cross-listed course under one disciplinary designation they may not take the course under the corresponding designation in the other discipline for credit.

SOCI 203 *Introduction to Society* (3 credits)

An introduction to the sociological study of society. The course begins with a consideration of the concepts, models, and methods used by sociologists. This is followed by an examination of selected substantive areas of social life, ranging from the relations between individuals and groups to total societies.

NOTE: Students who have received credit for SOCZ 203 may not take this course for credit.

SOCI 204 *Sociological Imagination* (3 credits)

Students are introduced to sociological imagination through theoretical, methodological, and empirical examples. They are taught the nature and logic of theory construction, the place of theory in social inquiry, conceptual tools for research, sociological problem construction, various methods of investigation, and styles for the presentation of theoretical or empirical results.

SOCI 212 *Statistics I* (3 credits)

Priority to enrol in this course is given to students who are in a Sociology or Anthropology program. This course provides an introduction to the basic principles of statistics for social scientists. Topics include the concept of the level of measurement, standardization, the interpretation of graphs, measures of univariate distributions, cross classification, elementary measures of association, the logic of controls, and the basic principles of inferential statistics. The emphasis is on the

implications of these statistical techniques for theoretical understanding of sociology and anthropology. NOTE See §200.7

SOCI 213 *Statistics II* (3 credits)

Prerequisite: SOCI 212. Priority to enrol in this course is given to students who are in a Sociology or Anthropology program. Students are encouraged to take SOCI 212 immediately preceding SOCI 213. This course is designed to follow Statistics I. Topics include measures of association, the principles of probability and sampling distributions, hypothesis testing, and tests of significance. The emphasis is on the implications of these statistical techniques for theoretical understanding in sociology and anthropology. NOTE See §200.7

SOCI 221 *Sociology of Cyberspace* (3 credits)

This course offers a critical examination of the role of electronic communication, information technology, and the Internet on public culture and the organization of social behaviour and interaction.

SOCI 230 *Race and Ethnic Relations* (3 credits)

Prerequisite: See N.B. number (3). Race and ethnicity are examined as bases of social differentiation. Ethnic group relations are analysed in relation to stratification and the exercise of power. The course further involves exploration of the phenomena of discrimination, prejudice, and intergroup accommodation.

SOCI 244 *Sociology of Leisure* (3 credits)
 The course examines the effects of social, economic, and political institutions upon the structure and use of leisure time. The emphasis is upon historical changes and the implications of alienation, anomie, and inequality.
NOTE: Students who have received credit for SOCI 344 may not take this course for credit.

SOCI 250 *Sociology of Culture* (3 credits)
 This course provides an introduction to theory and research on the sociology of culture, the organization and dynamics of cultural systems, cultural production and consumption, subcultures, mass culture, popular culture, and strategies of interpretive analysis for the study of culture.

SOCI 261 *Social Problems* (3 credits)
 Students examine a range of social problems related to aging, health, poverty, population growth, crowding, crime and justice, gender and gender orientation, inequality, media, non-medical drug use, suicide, globalization, and race, ethnicity, and language issues. Attention is focused on the process by which social problems are defined and recognized, and social policies developed and modified.

SOCI 262 *Social Deviance* (3 credits)
 Attention is focused on various forms of anti-social behaviour, particularly those that are socially induced. This course examines the nature, forms, sources, functions, and dysfunctions of deviations from social norms, and the mechanisms of social order and control. Deviance is viewed as a social process of interaction and relationships that derive from the social structure and have consequences for it. Various forms of deviance are considered in terms of contemporary social theory and research.

SOCI 263 *Juvenile Crime and Delinquency* (3 credits)
 This course examines the nature of juvenile crime and delinquency and their social causes and consequences. Juvenile crime and delinquency, as special kinds of deviance, receive the focus of attention, with emphasis on criminal justice, juvenile justice, criminal behaviour systems, and social policy on juvenile crime and delinquency.

SOCI 264 *Sociology of Sport* (3 credits)
 This course provides a systematic analysis of the social influences upon sport in North America. Special attention is directed to the interrelationships between sport and various social institutions.

SOCI 274 *The Sociology of Aging* (3 credits)
 This course examines the changes in society and in living conditions as populations and people age. The sources and the effects of these changes are looked at in the light of several substantive areas and in terms of their implications for social policy. While the major emphasis is on the Canadian experience, some comparative materials are used to widen the perspective.

SOCI 275 *Self and Society* (3 credits)
 This course studies the basic concepts and theories regarding social definitions of the Self. Emphasis is placed on ideas regarding personality, motivation, and interpersonal attitudes, viewed in terms of the interplay between actors and social structures.

SOCI 276 *Gender and Society* (3 credits)
 Prerequisite: See N.B. number (3). This course explores the social construction of gender categories both historically and in the present. The focus is upon examining the various theoretical perspectives which attempt to explain the ways in which society has organized "masculine" and "feminine" as the basis for social inequalities.

SOCI 280 *Quebec Society* (3 credits)
 Focus upon the historic changes in Quebec society, with emphasis upon the period following the Second World War. Examination of issues which have provoked conflicting interpretations, including the Conquest, the nature of Confederation, Quebec nationalism, and the language question.

SOCI 282 *Canadian Society* (3 credits)
 Analysis of Canadian social structure and change; the relation of the whole of Canadian society to its constituent elements; the relation of Canadian society to its international environment.

SOCI 298 *Selected Topics in Sociology* (3 credits)

SOCI 299 *Selected Topics in Sociology* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

SOCI 300 *Classical Social Theory* (6 credits)
 Prerequisite: See N.B. number (1). This course involves an examination of the origins of sociology and of the sociological works of nineteenth- and early twentieth-century European theorists, with consideration of the social and political context. Particular emphasis is given to the works of Durkheim, Marx, and Weber. Readings include primary sources and critical commentaries.

SOCI 310 *Research Methods* (6 credits)
 Prerequisite: See N.B. number (1); SOCI 213. This course introduces students to the concepts, language, and techniques of quantitative and qualitative research methods. It familiarizes students with the initiation of research problems, the gathering of accurate data, their statistical analysis, and the interpretation and reporting of research findings. This course also introduces students to SPSS (statistical software) and to library research.

SOCI 323 *Economy and Society* (3 credits)
 Prerequisite: See N.B. number (1). This course examines the ways in which economic activities

are legitimated or otherwise affected by social norms and values, and of the ways in which various social systems react to the strains created by the accommodation of new technology and of new industrial organizations.

SOCI 325 *Social Change* (3 credits)

Prerequisite: See N.B. number (1). This course examines the sources, mechanisms, and consequences of social and cultural change. Classical and contemporary theories of change are analysed, as well as significant empirical studies.

SOCI 331 *Social Inequalities* (3 credits)

Prerequisite: See N.B. number (1). This course examines the dynamics of social stratification and differentiation, including economic distinctions and their consequences, social status, power, and mobility. Emphasis is placed upon Canadian society.

**SOCI 333 (*also listed as SCPA 333*)
Political Sociology (3 credits)**

Prerequisite: See N.B. number (1). This course is concerned with the nature, organization, distribution, determinants, and consequences of power in social systems.

NOTE: Students who have received credit for SCPA 333 may not take this course for credit.

SOCI 336 *Collective Behaviour* (3 credits)

Prerequisite: See N.B. number (1). This course is concerned with the nature, emergence, and dynamics of short-term collective behaviour. Classical and contemporary interpretations of collective behaviour are examined. The course focuses on events such as riots and the emergence of violence in demonstrations related to current social problems and issues in Canada and the United States.

SOCI 338 *Sociology of Religion* (3 credits)

Prerequisite: See N.B. number (1). This course presents an overview of the role of religion in society as found in the pertinent literature of sociology and anthropology. Special consideration is given to the relationship between religion and other social institutions, with particular attention to changes in the religious structures and practices in modern pluralistic societies.

**SOCI 341 *Sociology of the Media*
(3 credits)**

Prerequisite: See N.B. number (1). This course provides an introduction to sociological debates on the relevance and impact of mass media in our society. With a focus on North American media, this course takes a historical perspective to explore the rise of the mass media and the transformation of its relation with culture, especially popular culture. Particular attention is given to themes such as media and identity, national identity; media structures and ownership concentration; media texts and audiences.

**SOCI 342 *Sociology of Occupations*
(3 credits)**

Prerequisite: See N.B. number (1). This course examines the role played by occupations and the

world of work in industrialized societies. Economic, social, psychological, and moral attributes of occupations are examined in relation to changing markets for labour. Specific problem areas to be covered include changes in the structure of professions, the effects of changing technology and organizational design on occupational requirements, issues in work and household demands, issues in employment equity and problems of unemployment.

SOCI 346 *Industrialization* (3 credits)

Prerequisite: See N.B. number (1). This course examines processes of industrialization. Analyses are directed primarily towards the Canadian experience and include a consideration of theories regarding industrialization in Canada; an examination of the social and economic impact of large-scale enterprises; the changing role of governments; the ongoing interaction between social organization and advanced technology; and contemporary thought on the social consequences of economic crises.

**SOCI 347 *Sociology of Labour-
Management Relations*
(3 credits)**

Prerequisite: See N.B. number (1). This course involves the study of the shifting patterns in labour-management relations with a special focus on Canada. The course includes analyses of theories of management; the impact of the labour union movement, changes in the nature of the labour market; the significance of the growth of the service sector; the changing role of governments in labour-related issues; and contemporary thought on new forms of industrial organization.

**SOCI 352 *Population and Environment*
(3 credits)**

Prerequisite: See N.B. numbers (1) and (3); SOCI 212. Population and environment have become two of the most contested areas for theory, research, policy and public action. The course critically examines the pillars of the population and the environment discourses with attention to differences between developed and developing countries. It provides an overview of the evolution of demands for population control to a common acceptance of a reproductive rights perspective. Similarly, the course focuses on current debates on environment and the management of the global commons from both the industrialized and developing countries' perspectives. *NOTE: Students who have received credit for ANTH 352 may not take this course for credit.*

**SOCI 353 (*also listed as ANTH 353*;
SCPA 353)
Community Studies (3 credits)**

Prerequisite: See N.B. numbers (1) and (3). This course involves the study of communities both as locales and as symbolic constructions. The major theoretical approaches used in community studies are evaluated in relation to research and applied interests. Special attention is given to sensitizing students to issues concerning gender, race, eth-

nicity, and class at the community level.

NOTE: Students who have received credit for ANTH 353 or SCPA 353 may not take this course for credit.

SOCI 355 (also listed as ANTH 355;
SCPA 355)
Urban Regions (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course reviews the work of anthropologists and sociologists in cities. The focus is on the social organization of social life in First and Third World urban spaces. Consideration is also given to the particular dynamics of fieldwork in urban settings.
NOTE: Students who have received credit for ANTH 355 or SCPA 355 may not take this course for credit.

SOCI 358 **Social Demography** (3 credits)
Prerequisite: See N.B. number (1); SOCI 212.
This course provides an introduction to the basic principles, issues, data, and methods of population studies. The emphasis in the course is on social factors that affect demographic processes (fertility, nuptiality, mortality, and migration), and the ways in which demographic change is related to social structure and social change.

SOCI 362 **Crime and Justice** (3 credits)
Prerequisite: See N.B. number (1). This course provides a critical analysis of the Canadian criminal justice system. The focus is on the process by which the accused is judged guilty or innocent, sentenced, punished or "corrected", and the treatment of the victim.

SOCI 363 **Law and Society** (3 credits)
Prerequisite: See N.B. numbers (1) and (3). This course situates the study of law in cross-cultural perspective. It involves an examination of the kinds of institutions found in place of courts in non-Western societies. This course also explores numerous issues of relevance to the legitimacy of contemporary Western legal systems, such as the relationship between law and morality, the idea of right prior to good, and the nature of legal reasoning.

SOCI 366 **The History and Sociology of Genocide to 1920** (3 credits)
This course is cross-listed with HIST 359.
Prerequisite: See N.B. numbers (1) and (3). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that have led to it up to 1920.
NOTE: Students who have received credit for HIST 359 may not take this course for credit.

SOCI 367 **The History and Sociology of Genocide from 1920 to the Present** (3 credits)
This course is cross-listed with HIST 360.
Prerequisite: See N.B. numbers (1) and (3). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes

that led to genocide from 1920 to the present.

NOTE: Students who have received credit for HIST 360 may not take this course for credit.

SOCI 375 **Social Construction of Sexualities** (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a cross-cultural, interdisciplinary approach to the study of human sexuality. There are three major components. One explores the validity of contemporary sexual beliefs and attitudes. Another focuses on the extent to which sexual beliefs and behaviours are socially organized. A third provides an introduction to theories which examine how biological and/or social forces shape our sexual lives.

SOCI 376 **Socialization** (3 credits)
Prerequisite: See N.B. number (1). This course examines the social and cultural processes by which the individual becomes a functioning member of society. Attention is given to adult socialization and re-socialization in diverse institutional contexts such as schools, occupations, hospitals, prisons, the military. The relationship of social structure to role acquisition and role performance is a major focus of the course.

SOCI 378 **The Family** (3 credits)
Prerequisite: See N.B. number (1). The family as an institution is examined in relation to social structure and historical change. Special emphasis is placed on trends in the nuclear family patterns of contemporary North American society, and on the relation of the family to the broader societal environment.

SOCI 380 **Contemporary Issues in Human Rights** (3 credits)
Prerequisite: See N.B. numbers (1) and (3). The course develops, through case analysis, insight into the differing priorities and competing concepts of human rights and human dignity in "non-Western" cultural traditions as well as in "Western" societies. It explores the significance of religious and other ideological positions in the use and abuse of human rights by governments, extra-governments, international bodies, as well as the general public. The course also examines topics such as women's human rights, sexuality and human rights, and human rights in development, the limits of sovereignty, and state accountability.
NOTE: Students who have received credit for ANTH 380 may not take this course for credit.

SOCI 381 **Ethnic Communities in Canada** (3 credits)
Prerequisite: See N.B. numbers (1) and (3). This course aims at familiarizing students with the social factors and dynamics of contemporary ethno-cultural communities in Canada. Topics may include the immigration process and settlement; community development, structures, and organizations; the ethnic family; socio-economic status and achievement; cultural continuity and change; minority-majority relations and relations with other ethno-cultural communities.

SOCI 398 *Selected Topics in Sociology*
(3 credits)

SOCI 399 *Selected Topics in Sociology*
(6 credits)

Prerequisite: See N.B. number (1). Specific prerequisites for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

SOCI 402 *Contemporary Sociological Theory* (3 credits)

Prerequisite: See N.B. number (2); SOCI 300. This course examines contemporary sociological theory. It focuses on how sociologists synthesize concepts from different sociological schools and disciplines (interactionism, phenomenology, functionalism, conflict theory, critical theory, political and moral philosophy) into general theories that seek to explain how social action, structure, the self, symbolic order, communication, technology, and social division are produced and reproduced in modern and postmodern societies.

NOTE: Students who have received credit for SOCI 408 may not take this course for credit.

SOCI 403 *Contemporary Cultural Theory*
(3 credits)

Prerequisite: See N.B. number (2); SOCI 402. This course examines a variety of approaches and area studies (poststructuralism, deconstruction, postcolonialist and cultural studies). It looks at how they shift contemporary sociological theory toward a focus on relations between discourse, knowledge, and power, and toward a critical reflection on cultural systems and institutions. The emphasis is on theories that seek to explain and understand the emergence of cultural politics in modern and postmodern societies.

NOTE: Students who have received credit for SOCI 408 may not take this course for credit.

SOCI 404 *Sociology of Literature* (3 credits)

Prerequisite: See N.B. number (2); or permission of the Undergraduate advisor. This course presents a critical study of literature and para-literature as a cultural and social practice. Various approaches to the sociology of literature are examined. The emphasis is on the social genesis of literature. Selected texts of Canadian fiction and drama are analysed.

SOCI 406 *Sociology of Knowledge*
(3 credits)

Prerequisite: See N.B. number (2). This course examines a variety of theories of the relation of knowledge and belief to social contexts.

SOCI 409 *Honours Seminar* (6 credits)

Prerequisite: See N.B. number (2); SOCI 410 previously or concurrently; and permission of the Honours advisor. This course involves the student formulating an Honours research proposal, and the research and writing of an Honours paper.

SOCI 410 *Research Design and Analysis*
(6 credits)

Prerequisite: See N.B. number (2); SOCI 310. This course looks at quantitative methods of data collection and analysis. Topics include experimental and quasi-experimental design, principles of measurement, survey design, secondary data sources, techniques of multivariate analysis, and interpretation.

SOCI 415 *Field Research* (6 credits)

Prerequisite: See N.B. number (2); SOCI 310. This course provides the opportunity for advanced qualitative research methods. Students are taught systematic procedures for the collection of primary data using methods that include participant-observation and formal and informal interviewing, survey research, and library research.

NOTE: Students who have received credit for SOCI 313, 314, 315 or ANTH 315 may not take this course for credit.

SOCI 430 *Development Debates* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course considers the systematic reduction of poverty and powerlessness at individual and societal levels. Several development problems are examined, including national debt crisis, population growth, urbanization, and various degrees of state withdrawal from regulating the market. Special emphasis is given to case studies from major regions of the Third World on the varied impact of development on gender relations and on the eradication of social and economic inequalities.

NOTE: Students who have received credit for ANTH 430 may not take this course for credit.

SOCI 433 *Theories of Identity* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course discusses theories of difference, pluralism, exclusion, nationalism, and racism within broader frameworks such as citizenship, multiculturalism, diaspora or transnationalism. This course will therefore review related theories of identity as these are currently addressed within anthropology/sociology and related disciplines.

NOTE: Students who have received credit for ANTH 433 may not take this course for credit.

SOCI 437 *Social Movements* (3 credits)

Prerequisite: See N.B. number (2). The nature, emergence, and dynamics of organized collective behaviour and social movements are examined in light of classical and contemporary theories. The course focuses on the impact of leadership, organizational resources, and discontent with institutionalized social relations on social movements. Contemporary social movements in Quebec, the rest of Canada, and the U.S. serve as illustrations.

SOCI 441 *Material Culture* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). The focus of this course is the study of material objects and technologies and their role in the

production of everyday social life and culture.
NOTE: Students who have received credit for ANTH 441 may not take this course for credit.

SOCI 445 *Sociology of Labour Movements* (3 credits)

Prerequisite: See N.B. number (2). This course analyses the origins and development of labour movements as well as contemporary characteristics of union organizations within the context of their social, political, and economic environments. Emphasis is placed on Canada and Quebec.

SOCI 451 *Citizenship, Eros and the City* (3 credits)

Prerequisite: See N.B. number (2). This course invites students to explore the relation between classic and contemporary texts in the field of social and political thought. The three interrelated areas of study include Citizenship, Eros and the City. The course explores diverse theories of democracy, community, love, and civil society. The integrating theme for these three areas is public and private relationships in the city.

SOCI 460 *Sociology of Fear and Risk* (3 credits)

Prerequisite: See N.B. number (2). This course explores the social, cultural, and historical role of fear in the production of subjects and the control and management of individuals and populations. Topics include surveillance, moral regulation, moral panics, social phobias, terrorism, and the landscape of fear in popular culture. The course also examines the emerging theory of risk society and draws on developments in the sociology of emotions.

SOCI 474 *Symbols, Rituals, and the Body* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course examines the social roles of the body. Topics include body image and self-esteem, the symbolism of beauty and ugliness, height, hair, dress, the face, body language, health and fitness, eating and drinking patterns. The subject

is considered in anthropological and sociological perspectives.

NOTE: Students who have received credit for ANTH 474 may not take this course for credit.

SOCI 475 *Men and Masculinist Theory* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course is a review of the various and changing roles of men, the meanings of masculinity across cultures and the emerging men's movements. In a dialogue with feminism, the course moves towards humanism.

NOTE: Students who have received credit for ANTH 475 may not take this course for credit.

SOCI 476 *Feminist Sociological Theories* (3 credits)

Prerequisite: See N.B. number (2). Analysis of recent debates and perspectives within feminist social theory, in particular the concepts of gender, equality, difference, identity, and power; feminist dialogues with, and critiques of, sociological theory.

SOCI 480 *Victorian Sociology* (3 credits)

Prerequisite: See N.B. number (2). This course provides the opportunity to study the lives and writings of women and men of the nineteenth century who contributed to the understanding of society and to the emergence of British and American sociology. The research and writings studied include those of Martineau, Tocqueville, Mill, Marx, Engels, Tristan, Maine, Spencer, Harrison, Mayhew, Booth, Gilman, Besant, Veblen, and Webb.

SOCI 498 *Advanced Topics in Sociology* (3 credits)

SOCI 499 *Advanced Topics in Sociology* (6 credits)

Prerequisite: See N.B. number (2). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

Programs

ANTHROPOLOGY

60 *BA Honours in Anthropology*

- 3 ANTH 202^{3*}
- 3 SOCI 212^{3***}
- 6 200-level ANTH credits
- 3 200-level SOCI credits
- 3 ANTH 212³
- 6 ANTH 311³, 312³
- 6 ANTH 315⁶
- 12 300- or 400-level ANTH credits
- 6 ANTH 495⁶
- 12 400-level ANTH credits

60 *BA Specialization in Anthropology*

- 3 ANTH 202^{3*}
- 3 SOCI 212^{3***}
- 6 200-level ANTH credits
- 3 200-level SOCI credits
- 3 ANTH 212³

- 6 ANTH 311³, 312³
- 6 ANTH 315⁶
- 30 300- or 400-level ANTH credits
(maximum of 15 credits from the 300 level)

60 *BA Joint Specialization in Anthropology and Sociology*

- 3 ANTH 202^{3*}
- 3 SOCI 203^{3**}
- 6 SOCI 212^{3***}, 213³
- 6 ANTH 311³, 312³
- 6 SOCI 300⁶
- 6 Chosen from SOCI 310⁶, 410⁶
- 12 Chosen from ANTH 379³, 472³; ANTH/SOCI 353³, 355³, 363³, 375³, 381³, 430³
- 6 400-level ANTH credits
- 6 400-level SOCI credits
- 6 ANTH or SOCI credits

42 BA Major in Anthropology	3 200-level ANTH or SOCI credits
3 ANTH 202 ^{3*}	6 ANTH 311 ³ , 312 ³
3 200-level ANTH credits	12 300-level ANTH credits
3 200-level ANTH or SOCI credits	3 400-level ANTH credits
3 200-level SOCI credits	<i>*Students exempted from ANTH 202³ are required to take three credits from ANTH 200- and 300-level courses.</i>
6 ANTH 311 ³ , 312 ³ ,	<i>**Students exempted from SOCI 203³ are required to take three credits from SOCI 200- and 300-level courses.</i>
6 ANTH 315 ⁶	<i>***Students exempted from SOCI 212³ are required to take three credits from SOCI 200- and 300-level courses.</i>
12 300- or 400-level ANTH credits	
6 400-level ANTH credits	
30 Minor in Anthropology	
3 ANTH 202 ^{3*}	
3 200-level ANTH credits	

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are open to students who have successfully completed ANTH 202 or equivalent, plus at least three credits of 200-level Anthropology courses.
- (2) 400-level courses are open to students who have successfully completed ANTH 311 and 312, plus at least six credits of 300-level Anthropology courses or permission of the Anthropology advisor.
- (3) Entry requirements for Sociology/Anthropology cross-listed courses depend on the discipline through which the course is entered. Once students have taken a cross-listed course under one disciplinary designation they may not take the course under the corresponding designation in the other discipline for credit.

ANTH 202 Introduction to Culture (3 credits)

An introduction to the anthropological study of culture. The course begins with a consideration of the concepts, models, and methods used by anthropologists. This is followed by an examination of the many ways in which peoples of the world, past and present, have organized the activities, institutions, and belief systems that sustain social life. The course concludes with a discussion of the relevance of cultural anthropology to contemporary issues.

NOTE: Students who have received credit for ANTH 202 may not take this course for credit.

ANTH 203 Culture and Biology: An Anthropological Perspective (3 credits)

This course focuses on the interrelationship between culture and human biology. The first part of the course examines current debates about human origins, human variation, and the influence of cultural adaptation on human biology. This is followed by a critical examination of the strategies of sociobiology for the study of socio-cultural phenomena.

ANTH 204 Native Peoples of North America (3 credits)

Focusing primarily on the Native peoples of Canada, this course examines the ecological, economic, social, and religious aspects of Native cultures. A representative society from each geographic area of Canada is studied. This course is primarily ethnographic in emphasis, but it also seeks to provide some of the social and historical background necessary to understand the current situation of Native communities.

ANTH 212 Elements of Ethno-Linguistics (3 credits)

This is an introductory course which explores the relationship between language and culture, and the use of language in society. Major issues and debates in ethno-linguistics, socio-linguistics, and philosophy of language are examined.

ANTH 221 Symbolic Anthropology (3 credits)

This course examines alternative theoretical approaches to the study of the role of symbols in society. The course is devoted to a consideration of the contributions of structural, psychoanalytic, and interpretive anthropology.

ANTH 230 Race and Ethnic Relations (3 credits)

Prerequisite: See N.B. number (3). Race and ethnicity are examined as bases of social differentiation. Ethnic group relations are analysed in relation to stratification and the exercise of power. The course includes explorations of the phenomena of discrimination, prejudice, and intergroup accommodation.

ANTH 231 Culture and Commerce (3 credits)

This course explores the influence of cultural values on the organization of the production, distribution or marketing, and the consumption of goods and services at both the local and global levels of the world economy. It also examines the social and environmental impact of the globalization of the consumer society.

ANTH 270 Anthropology and Contemporary Issues (3 credits)

This course examines contemporary world issues

from a cross-cultural perspective. Discussion ranges from a critical examination of anthropological concepts and methods to a consideration of some of the practical or applied uses of anthropology. Specific topics include the consequences of underdevelopment, modernization, and the place of folk cultures and tradition in an increasingly global society.

ANTH 272 *Comparative Culture* (3 credits)
This course is a general introduction to social and cultural anthropology. It examines the ways in which anthropologists use the comparative method to understand cultures in their unity and diversity. The focus is upon reading ethnographies.

ANTH 276 *Gender and Society* (3 credits)
Prerequisite: See N.B. number (3). This course explores the social construction of gender categories both historically and in the present. The focus is upon examining the various theoretical perspectives which attempt to explain the ways in which society has organized "masculine" and "feminine" as the basis for social inequalities.

ANTH 298 *Selected Topics in Anthropology* (3 credits)

ANTH 299 *Selected Topics in Anthropology* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

ANTH 302 *Art, Aesthetics, and Anthropology* (3 credits)
Prerequisite: See N.B. number (1). This course examines the relationship between art and society. It is mainly concerned with analysing how art may function as a means of signifying and perpetuating a given social order. Examples of artistic practice are drawn from diverse North and South American, African, and Melanesian cultures.

ANTH 303 *Indigenous Cultures Today* (3 credits)
Prerequisite: See N.B. number (1). Through a selection of case studies from the Americas, Australia, and New Zealand, this course focuses on contemporary indigenous political struggles, cultural resurgence, race and identity, language revival, urbanization, transnational organization, indigenous media, and debates concerning tradition.

ANTH 305 *Culture and History* (3 credits)
Prerequisite: See N.B. number (1). This course analyses some of the ways "history" has been understood both in our own and other cultures, including history as legitimating charter, as repeating cycle, as a scientific inquiry, as a series of unique events, and as a basis for ethical judgements.

ANTH 307 *Understanding Myths* (3 credits)
Prerequisite: See N.B. number (1). This course presents a survey of current anthropological theories of the nature and function of myths. The course also analyses competing interpretations

of some classic Western myths, and concludes with an examination of mythmaking in contemporary Western culture.

ANTH 311 *European Anthropological Theories* (3 credits)

Prerequisite: See N.B. number (1). This course provides the student with a critical perspective on the historical development of theory in anthropology. Students are introduced to evolutionism, functionalism, structuralism, marxism, and post-modernism by rereading original texts and classical and contemporary ethnography. The role that fieldwork plays in "unmaking" theory in anthropology is explored. Emphasis is placed on the history and critique of British and European anthropological traditions.

ANTH 312 *North-American Anthropological Theories* (3 credits)

Prerequisite: See N.B. number (1). This course provides the student with a critical perspective on the historical development of theory in anthropology. Students are introduced to evolutionism, functionalism, structuralism, marxism, and post-modernism by rereading original texts and classical and contemporary ethnography. The role that fieldwork plays in "unmaking" theory in anthropology is explored. Emphasis is placed on the history and critique of American anthropological traditions.

ANTH 315 *Field Research* (6 credits)
Prerequisite: See N.B. number (1). This course provides the opportunity to study and practise qualitative research methods as they are used by anthropologists. Students learn systematic procedures for the collection of primary data using methods that include participant-observation and formal and informal interviewing.
NOTE: Students who have received credit for SOCI 315 may not take this course for credit.

ANTH 323 *Peoples and Cultures of the Middle East* (3 credits)
Prerequisite: See N.B. number (1). This course explores the diversity of religious practices, social values, economic organization, and family and gender relations in several different Middle Eastern societies by examining ethnographic material on transformations and continuities in the lives of urban and rural people.

ANTH 324 *Peoples and Cultures of Oceania* (3 credits)
Prerequisite: See N.B. number (1). This course presents an overview of the peoples and cultures of Oceania, with particular emphasis on Melanesia. In addition to studying the peopling of the Pacific, the course delves into a range of classic anthropological topics, and addresses contemporary issues of gender, migration, and urbanization.

ANTH 325 *Magic, Science, Religion, and Ideology* (3 credits)
Prerequisite: See N.B. number (1). This course analyses belief systems and their attendant rituals and practices. The focus is on how anthropologists differentiate between magic, science, religion, and

ideology, and how anthropologists understand the relationship between belief systems and reality.

ANTH 326 *Peoples and Cultures of Sub-Saharan Africa* (3 credits)

Prerequisite: See N.B. number (1). The course gives a broad historical and geographical survey of the region, and discusses, through case studies, older and contemporary topics, debates, and issues of African anthropology.

ANTH 332 *Health, Illness and Healing in Cross-Cultural Perspective* (3 credits)

Prerequisite: See N.B. number (1). This course involves the exploration of a series of alternatives to Western ways of defining health and treating sickness, with particular emphasis on shamanistic and East Asian medicine. The major part of the course is devoted to the study of ethnomedicine, and exploring some of the central questions of transcultural psychiatry. The course concludes with a discussion of the role of the anthropologist in international health-planning.

ANTH 352 *Population and Environment* (3 credits)

Prerequisite: See N.B. numbers (1) and (3); SOCI 212. Population and environment have become two of the most contested areas for theory, research, policy and public action. The course critically examines the pillars of the population and the environment discourses with attention to differences between developed and developing countries. It provides an overview of the evolution of demands for population control to a common acceptance of a reproductive rights perspective. Similarly, the course focuses on current debates on environment and the management of the global commons from both the industrialized and developing countries' perspectives.

NOTE: Students who have received credit for SOCI 352 may not take this course for credit.

ANTH 353 *(also listed as SOCI 353; SCPA 353) Community Studies* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course involves the study of communities both as locales and as symbolic constructions. The major theoretical approaches used in community studies are evaluated in relation to research and applied interests. Special attention is given to sensitizing students to issues concerning gender, race, ethnicity, and class at the local level.

NOTE: Students who have received credit for SOCI 353 or SCPA 353 may not take this course for credit.

ANTH 355 *(also listed as SOCI 355; SCPA 355) Urban Regions* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course reviews the work of anthropologists and sociologists in cities. The focus is on the social organization of social life in First and Third World urban spaces. Consideration is also given to the

particular dynamics of fieldwork in urban settings.

NOTE: Students who have received credit for SOCI 355 or SCPA 355 may not take this course for credit.

ANTH 361 *Kinship* (3 credits)

Prerequisite: See N.B. number (1). This course addresses both classical and contemporary issues in kinship studies, with particular emphasis on the following areas: filiation, adoption, descent, genealogies; rules of residency, private and public spheres; incest, sex, and marriage; terminologies and attitudes.

ANTH 363 *Law and Society* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course situates the study of law in cross-cultural perspective. It involves an examination of the kinds of institutions found in place of courts in non-Western societies. The course also explores numerous issues of relevance to the legitimacy of contemporary Western legal systems, such as the relationship between law and morality, the idea of right prior to good, and the nature of legal reasoning.

ANTH 375 *Social Construction of Sexualities* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a cross-cultural, interdisciplinary approach to the study of human sexuality. There are three major components. One explores the validity of contemporary sexual beliefs and attitudes. Another focuses on the extent to which sexual beliefs and behaviours are socially organized. A third provides an introduction to theories which examine how biological and/or social forces shape our sexual lives.

ANTH 377 *Visual Anthropology* (3 credits)

Prerequisite: See N.B. number (1). In looking at the history of ethnographers' visual documentation of non-Western peoples as well as indigenous self-representations, this course primarily concerns itself with power and the development of professional anthropology, focusing on photography and film. It explores paradigms and case studies in the history of visual anthropology by highlighting the stylistic, social scientific, commercial, and political agendas that influence the production of visual documents. Starting with colonial exhibitions of "exotic natives," the course progresses to classic and contemporary ethnographic film with a focus on Curtis, Flaherty, Mead, Gardner, Rouch, and MacDougall.

NOTE: Students who have received credit for this topic under an ANTH 398 number may not take this course for credit.

ANTH 379 *Cross-Cultural Perspectives on Gender* (3 credits)

Prerequisite: See N.B. number (1). The course explores through different theoretical perspectives and ethnographic examples, cross-cultural differences in sex/gender systems. A comparative analysis of gender relations in band, tribal, and state societies is undertaken. Topics discussed include the sexual division of labour, the cultural and social construction of gender, and the impact

of economic development.

NOTE: Students who have received credit for SOCI 379 may not take this course for credit.

ANTH 380 *Contemporary Issues in Human Rights* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). The course develops, through case analysis, insight into the differing priorities and competing concepts of human rights and human dignity in "non-Western" cultural traditions as well as in "Western" societies. It explores the significance of religious and other ideological positions in the use and abuse of human rights by governments, extra-governments, international bodies, as well as the general public. The course also examines topics such as women's human rights, sexuality and human rights, and human rights in development, the limits of sovereignty, and state accountability. *NOTE: Students who have received credit for ANTH or SOCI 380 may not take this course for credit.*

ANTH 381 *Ethnic Communities in Canada* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course aims at familiarizing students with the social factors and dynamics of contemporary ethno-cultural communities in Canada. Topics may include the immigration process and settlement; community development, structures, and organizations; the ethnic family; socio-economic status and achievement; cultural continuity and change; minority-majority relations and relations with other ethno-cultural communities.

ANTH 385 *Globalization and Transnationality* (3 credits)

Prerequisite: See N.B. number (1). Globalization has been used generally to denote the increasingly rapid and far-flung circulation of people, money, commodities, and images around the world. This course introduces students to a sample of issues covered by anthropologists and sociologists in respect to this process, while at the same time also exploring transnational social networks that cross state borders but are not necessarily global in scope.

NOTE: Students who have received credit for SOCI 385 may not take this course for credit.

ANTH 398 *Selected Topics in Anthropology* (3 credits)

ANTH 399 *Selected Topics in Anthropology* (6 credits)

Prerequisite: See N.B. number (1). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

ANTH 420 *Psychological Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course examines and critiques the theoretical concepts of Western academic and folk psychology from the perspective of the psychologies of other cultures. Topics considered include the cultural construction of the emotions, personality devel-

opment, perception, culture-bound psychiatric syndromes (such as windigo psychosis, amok), and altered states of consciousness, and indigenous theories of dream interpretation.

ANTH 423 *Political Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course examines the political process and political organization in cross-cultural perspective. The focus is on how order is achieved in the absence of the state, as well as questions of leadership, power, and authority in different social contexts.

ANTH 424 *Experiments and Experience in Ethnographic Writing* (3 credits)

Prerequisite: See N.B. number (2). This course examines debates that stemmed from the post-modern critique of representation in anthropology in the mid-1980s. This critique has highlighted new politics for the writing of ethnographic texts, as well as raised a number of epistemological questions relating to the ontological status of truth. The course focuses on recent experiments in ethnographic writing and on dynamics of fieldwork experience.

NOTE: Students who have received credit for ANTH 422 may not take this course for credit.

ANTH 425 *Religions in the Twenty-First Century* (3 credits)

Prerequisite: See N.B. number (2). This course examines the contemporary roles of religion as systems of meaning, a focus of social claims, and as elements of self-expression. This discussion is set within the historical trajectories of instances of globalization, such as colonization and the spread of world religions, conversions to Christianity and liberation theories, the politicization of Islam, or the emergence of New Age religions as new forms of identity.

ANTH 430 *Development Debates* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course considers the systematic reduction of poverty and powerlessness at individual and societal levels. Several development problems are examined, including national debt crisis, population growth, urbanization, and various degrees of state withdrawal from regulating the market. Special emphasis is given to case studies from major regions of the Third World on the varied impact of development on gender relations and on the eradication of social and economic inequalities.

NOTE: Students who have received credit for SOCI 430 may not take this course for credit.

ANTH 431 *Neo-Marxism and Cultures* (3 credits)

Prerequisite: See N.B. number (2). This course analyses the relationships between economy and cultural systems. The first section is devoted to the concept of economic base and superstructure in the industrial world; the second section focuses on selected case studies of non-industrial cultures and industrial cultures. The course concludes with an appraisal of the quality of economic life in non-industrial cultures.

ANTH 433 Theories of Identity (3 credits)
Prerequisite: See N.B. numbers (2) and (3). This course discusses theories of difference, pluralism, exclusion, nationalism, and racism within broader frameworks such as citizenship, multiculturalism, diaspora or transnationalism. This course will therefore review related theories of identity as these are currently addressed within anthropology/sociology and related disciplines.

NOTE: Students who have received credit for SOCI 433 may not take this course for credit.

ANTH 440 Culture, Language, and Mind (3 credits)

Prerequisite: See N.B. number (2); ANTH 212. This course looks at the relationship between linguistics and anthropology, and examines some of the issues in the linkage between language, culture, and thought.

ANTH 441 Material Culture (3 credits)
Prerequisite: See N.B. numbers (2) and (3). This course studies material objects and technologies and their role in the production of everyday social life and culture.

NOTE: Students who have received credit for SOCI 441 may not take this course for credit.

ANTH 463 Current Debates in Kinship (3 credits)

Prerequisite: See N.B. number (2). From its inception, the anthropological investigation of kinship has been centred around organization and regulation of so-called biological facts such as procreation and genetic relatedness or "consanguinity". The course examines how international adoption, new reproductive technologies, and gay and lesbian kinship reshape the way people think about kinship.

ANTH 465 Legal Anthropology (3 credits)
Prerequisite: See N.B. number (2). This course analyses the legal system as an institutionalized system of social control and meanings, using historical and comparative data. Special attention is given to the study of the interface of law and other areas of sociological inquiry, including social change, conflict, and decision-making.

ANTH 471 Anthropology of Food (3 credits)

Prerequisite: See N.B. number (2). This course approaches food through four main themes: archaeology of food production (domestication of plants and animals); class, cuisine, and the development of taste; cosmic and other symbolism of food; and the political economy of food and hunger.

ANTH 472 Childhood and Youth (3 credits)
Prerequisite: See N.B. number (2). This course examines the increasingly diverse field of anthropological research on children and youths. This field of interest has recently been expanded to consider a wide range of arenas in which children and youth may be implicated across the world, such as consumption, mobility, media, work, and conflict.

NOTE: Student who have received credit for SOCI 472 may not take this course for credit.

ANTH 474 Symbols, Rituals, and the Body (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course examines the social roles of the body. Topics include body image and self-esteem, the symbolism of beauty and ugliness, height, hair, dress, the face, body language, health and fitness, eating and drinking patterns. The subject is considered in anthropological and sociological perspectives.

NOTE: Students who have received credit for SOCI 474 may not take this course for credit.

ANTH 475 Men and Masculinist Theory (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course is a review of the various and changing roles of men, the meanings of masculinity across cultures and the emerging men's movements. In a dialogue with feminism, the course moves towards humanism.

NOTE: Students who have received credit for SOCI 475 may not take this course for credit.

ANTH 477 Elites, Privilege and Relative Advantage (3 credits)

Prerequisite: See N.B. number (1). This course reviews the analytical and comparative challenges posed by the study of the elites such as scientists, entrepreneurs, and politicians. More modest forms of relative advantage and privilege are also addressed.

NOTE: Students who have received credit for this topic under an ANTH 498 number may not take this course for credit.

ANTH 479 Feminism and Anthropology (3 credits)

Prerequisite: See N.B. number (2). This course explores the dialogue between feminist theory and anthropology. Topics discussed include "feminist standpoint" theory and the critique of "objectivity" in feminist philosophy of science; feminist contributions to the historical development of anthropological theory; and the relationship between feminism and postmodernism in current debates on ethnography and fieldwork.

ANTH 495 Honours Essay (6 credits)

Prerequisite: See N.B. number (2); ANTH 315; and permission of the Honours advisor. Under the supervision of an Anthropology staff member, the student prepares an Honours essay on a subject chosen in consultation with and approved by the professor.

ANTH 498 Advanced Topics in Anthropology (3 credits)

ANTH 499 Advanced Topics in Anthropology (6 credits)

Prerequisite: See N.B. number (2). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

31.330 THEOLOGICAL STUDIES

Faculty	Chair CHRISTINE JAMIESON, Associate Professor	Assistant Professors PAUL ALLEN MARIE-FRANCE DION LORENZO DITOMMASO
	Associate Professor and Graduate Program Director LUCIAN TURCESCU	Adjunct Professor CHARLES KANNENGIESSER
	Professor PAMELA BRIGHT	
Location	Sir George Williams Campus Annex D, Room: 103 514-848-2424 ext. 2475	
Department Objectives	Theology builds a bridge between religious experience and human society. To expand understanding of the human person and of God, the Department seeks to make accessible to all its students an immense tradition of knowledge — especially through interpretation theory, historical analysis, psychological insight, and theoretical elaboration. The Department is dedicated to training professional theologians and researchers while expanding the horizons of those who wish to appreciate their heritage.	
Programs	<p>Students are responsible for satisfying their particular degree requirements. The superscript indicates credit value. Students must have their programs approved by the Department. Students will be admitted to the Certificate in Pastoral Ministry with the permission of the Department. Admission will be based on the number of available places and upon evaluation of the candidates' letter of intent and an interview dealing with their educational background and community experience. All courses in the Department are open to any qualified student of Concordia.</p> <div> <div> <p>60 BA Honours in Theological Studies</p> <p>3 THEO 293³</p> <p>24 THEO 201³, 202³, 203³, 204³, 206³, 233³, 301³, 351³</p> <p>3 Chosen from THEO 315³, 317³ (<i>Scripture</i>)</p> <p>3 Chosen from THEO 320³, 322³ (<i>History</i>)</p> <p>3 Chosen from THEO 331³, 333³, 335³, 337³ (<i>Systematics</i>)</p> <p>3 Chosen from THEO 208³, 234³, 236³ (<i>Spirituality</i>)</p> <p>12 THEO 406³, 408³, 410³, 460³</p> <p>3 Chosen from cognate courses in Classics, History, Philosophy, Psychology, Religion, Sociology, in consultation with the Honours advisor. Students, in consultation with the Honours advisor, may choose a course in another cognate discipline.</p> <p>6 Chosen from courses in the ancient and/or modern languages of Classical Greek, Biblical Greek, Biblical Hebrew, Modern Hebrew, Latin, French, German, Italian, Spanish, in consultation with the Honours advisor</p> <p><i>NOTE: With the permission of the Department, three credits in a cognate discipline may be substituted for a THEO elective.</i></p> </div> <div> <p>36 BA Major in Theological Studies</p> <p>12 THEO 201³, 202³, 203³, 204³</p> <p>3 Chosen from THEO 301³, 303³</p> <p>3 Chosen from THEO 315³, 317³</p> <p>3 Chosen from THEO 206³, 320³, 322³</p> <p>3 Chosen from THEO 331³, 333³, 335³, 337³</p> <p>3 Chosen from THEO 351³, 353³</p> <p>3 Chosen from THEO 208³, 234³, 236³, 340³</p> <p>6 Chosen from any of the Theology offerings</p> <p><i>NOTE: With the permission of the Department, three credits in a cognate discipline may be substituted for a THEO elective.</i></p> <p>24 Minor in Theological Studies</p> <p>12 THEO 201³, 202³, 203³, 204³</p> <p>12 Chosen from other Theology offerings</p> <p>30 Certificate in Pastoral Ministry</p> <p>15 THEO 203³, 402³, 404³; AHSC 230³, 232³</p> <p>3 Chosen from THEO 315³, 317³</p> <p>3 Chosen from THEO 206³, 320³, 322³</p> <p>3 Chosen from THEO 204³, 351³, 353³</p> <p>3 Chosen from THEO 233³, 331³, 333³, 335³, 337³</p> <p>3 Chosen from THEO 234³, 236³, 340³</p> </div> </div>	

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

THEO 201 *Introduction to Theological Studies* (3 credits)

The course introduces the student to the structure, nature, and method of theological studies and the relation of these studies to the other sciences.

THEO 202 *Introduction to Biblical Studies* (3 credits)

This course provides a survey of the contents of the Bible, from Genesis to Revelation, and a practical introduction to the skills required to understand biblical texts. Attention is paid to diverse approaches to interpretation which are used in historical, literary, or theological study of the Bible, and also to appropriate strategies for the use of biblical texts in liturgy, homilies, and personal prayer.
NOTE: Students who have received credit for THEO 222 or THEZ 202 may not take this course for credit.

THEO 203 *Introduction to New Testament* (3 credits)

This course studies the four major kinds of writing found in the New Testament: Gospel, Letter, Apocalypse, Luke-Acts.
NOTE: Students who have received credit for THEO 310 may not take this course for credit.

THEO 204 *Introduction to Christian Ethics* (3 credits)

This course is an introduction to the field of ethics in the context of Christian faith. Christian ethics is presented as an active quest towards understanding and guiding Christian moral living. There is a brief presentation of the historical background to Christian ethics, an exploration of the points of convergence with other religious traditions, as well as the interrelationship between morality and freedom. The course will include a reflection on the problem of evil as a diminishment of persons and societies as well as a section on moral development and moral maturity.
NOTE: Students who have received credit for THEO 350 or THEZ 204 may not take this course for credit.

THEO 206 *The Origins of Christianity* (3 credits)

A study of the historical origins of the Church with a view to understanding the creative originality of the Christian tradition. This study opens up possibilities for the rethinking of contemporary Christianity in the light of the common sources of diverse Christian tradition.
NOTE: Students who have received credit for THEO 421 may not take this course for credit.

THEO 208 *Celtic Christianity* (3 credits)

This course follows a historical line to show the connections of the pre-Christian Celtic beliefs with the early Christian Church of Celtic countries.

While some emphasis is on history and culture, particular focus is placed on the spirituality of the Celtic people. While not limited to the Irish experience, the experience of the early Irish Celtic Church serves as a focal point in considering various patterns of human living as indicative of a particular spiritual vision.

NOTE: Students who have received credit for this topic under a THEO 298 number may not take this course for credit.

THEO 211 *Introduction to Roman Catholicism* (3 credits)

This course offers an introduction to the contemporary Roman Catholic experience, and includes a treatment of the historical origins of Catholicism, its worship and liturgy, its spirituality, and its role in society and culture.

THEO 212 *Faith, Reason and the Religious Sense* (3 credits)

This course investigates the basic human search for meaning in life using as a starting point the role of reason as openness to reality. This openness expresses itself as a fundamental desire for truth, goodness, and beauty. The course explores how these desires are constitutive of human existence, how various unreasonable strategies are used to distort and deny them, and how a reasonable affirmation of them is possible.
NOTE: Students who have received credit for this topic under a THEO 298 number may not take this course for credit.

THEO 226 *Theology and Myth* (3 credits)

This course is a comparative study of mythology. The focus is on the role of myths in Christian theology, e.g. creation myths, origins of humanity, salvation myths, and others.

THEO 233 *Religious Pluralism in a Secular Culture* (3 credits)

The course focuses on the relationship between religion, pluralism, and secular culture. It deals specifically with the prevalence of pluralism in a society that has neither done away with, nor marginalized, religion. In the context of respect for human rights and freedom of conscience, a new kind of religious identity is emerging which is sensitive to context, procedure, and history. The course considers ways in which this new identity be communicated so that a community is constituted and not divided.

NOTE: Students who have received credit for THEO 232 or THEZ 233 may not take this course for credit.

THEO 234 *Christian Spirituality* (3 credits)

The characteristics of Christian spirituality, its roots in scripture, the balance between contemplation and action, its communal dimension, its attitude to world, are analysed through the study

of a selection of men and women whose lives exemplify various aspects of Christian spirituality over the past two thousand years. The course examines notions of transcendence and immanence, individuality and collectivity, nature and the divine.

NOTE: Students who have received credit for THEO 372 may not take this course for credit.

THEO 236 *Spirituality: Personal, Social and Religious Dimensions* (3 credits)

The course focuses on spirituality as a personal response to the human quest for transcendence. There is also an analysis of the ways in which spirituality creates a consensus for a social harmony and for creative exchanges between cultures, especially in the arts. The course includes a **general reflection on the role of religion in fostering spirituality** by marking it with explicit convictions about the ultimate goal of life, and also includes a **specific section on the characteristics of Christian spirituality as a response to the Gospel.**

THEO 238 *Theology in Film* (3 credits)

This course examines a series of films to uncover their theological preoccupations, motives, and questions. Methods of analyses are discussed, in conjunction with screenings of selected films.

THEO 242 *Theology and the Arts* (3 credits)

This course is a theological reflection on various art forms (music, dance, visual arts, architecture) throughout the history of Christianity.

NOTE: Students who have received credit for THEO 241 may not take this course for credit.

THEO 271 *Women in Theology* (3 credits)

This course explores the emergence of a body of scholarly writing by women theologians. It looks at the questions raised and the critiques of traditional theological doctrines and interpretations, as well as suggesting different hermeneutical approaches to exegesis, theology, and history.

THEO 276 *The Icon: Theology in Colour* (3 credits)

The icon is both a theological medium and a theological message. The first is expressed by design, the latter by colour. The study of the icon offers the student an opportunity to explore theological meaning by means of image and symbolism as well as concept and reasoning.

THEO 293 *Philosophical Foundations of Theology* (3 credits)

This course is a survey of key concepts and issues that intersect the study of theology and philosophy. Its main objective is to introduce students to the underlying philosophical ideas that guide theological reflection. Such topics as knowledge, science, symbols and beliefs concerning the human body, creation and time are treated. Several classical and contemporary texts are examined.

NOTE: Students who have received credit for this

topic under a THEO 298 or THEZ 298 number may not take this course for credit.

THEO 298 *Selected Topics in Theological Studies* (3 credits)

THEO 299 *Selected Topics in Theological Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

THEO 301 *The Hebrew Bible: History and Texts* (3 credits)

An introduction to the historical contexts in which the Hebrew Bible was written, to its various literary genres (historical, prophetic, and poetic), and to contemporary methods of interpretation.

THEO 303 *The Old Testament in Theology* (3 credits)

Selected texts from the Bible will be read in the light of contemporary scholarship, with attention to the use of these texts in theology, in worship, and in private prayer. The course focuses on the uses of the Bible, offering a critique of abuses in the past and present.

NOTE: Students who have received credit for THEO 300 may not take this course for credit.

THEO 315 *Gospels and Acts* (3 credits)

This course is an introduction to the texts and teachings of the four canonical Gospels and to the Acts of the Apostles.

THEO 317 *The Epistles and Revelation* (3 credits)

This course is an introduction to the New Testament Epistles, and to the Book of Revelation, with a closer reading of selected texts.

THEO 320 *History of Christianity: First Millennium* (3 credits)

This course explores the historical foundations of the Church in the first five centuries, and the diverging experiences of the Church in East and West to the end of the millennium.

NOTE: Students who have received credit for THEO 423 may not take this course for credit.

THEO 322 *History of Christianity: Reformation and Modernity* (3 credits)

This course explores the history of Christianity from the high Middle Ages through to the closing decades of the twentieth century, with special attention given to the ages of Reform and to the impact of the Enlightenment on the lifestyles, institutions, social attitudes, and intellectual life of modern Christians.

NOTE: Students who have received credit for THEO 425 may not take this course for credit.

THEO 331 *The Christian Understanding of God* (3 credits)

This course is the exploration of God as ultimate

reality in Christian history, and in the context of contemporary issues such as world religions, gender, and new forms of language about God.
NOTE: Students who have received credit for THEO 430 may not take this course for credit.

THEO 333 *Jesus Christ in History and Faith* (3 credits)

This course studies the biblical and later traditions about the person of Jesus Christ, both from a historical and doctrinal perspective. The course, traditionally known as christology, also examines the central role of Christ in contemporary theology.
NOTE: Students who have received credit for THEO 332 may not take this course for credit.

THEO 335 *The Church in the World* (3 credits)

This course reflects on the nature of the Church as People of God situated in the modern world. Topics to be explored are the notions of belonging, freedom and authority, church and society.
NOTE: Students who have received credit for THEO 334 may not take this course for credit.

THEO 337 *The Christian Mysteries* (3 credits)

This course examines the history, the symbols, and the images of ritual and liturgical communication in Christianity, especially in baptism and eucharist. These "mysteries", as the Christian sacraments were originally called, will be studied in the context of a Christian life.
NOTE: Students who have received credit for THEO 336 may not take this course for credit.

THEO 340 *Private Prayer and Public Worship* (3 credits)

Prayer is shown as a basic human act. The course will explore diverse traditions of the communal forms of worship as well as the many forms of private prayer that have been practised in Christian churches.
NOTE: Students who have received credit for THEO 370 may not take this course for credit.

THEO 351 *Applied Ethical Issues* (3 credits)

This course explores controversial issues in areas of personal ethics (such as euthanasia, abortion, human sexuality, health care, aging), and social ethics such as social justice and economic issues, war and peace.
NOTE: Students who have received credit for THEO 390 may not take this course for credit.

THEO 353 *Clinical Ethics* (3 credits)
This course explores some of the more common problems in health-care ethics. The course makes a distinction between clinical ethics and medical ethics, in the sense that these topics will be discussed from within a multidisciplinary perspective.

THEO 355 *Ethics and Religious Culture* (3 credits)
This course focuses on the development of

critical analyses of ethics and religious culture. The ethics component considers the different ways of viewing life and reflection on personal, social, and transcendent values. The religious culture component explores social change in relation to Quebec's religious heritage (Catholic, Protestant, Jewish, and Amerindian) and the need for a constructive interpretation of religious diversity that especially considers the global perspectives of religion from Islam, Hinduism, and Buddhism. The course content balances disciplinary and didactic elements and is directed to the pedagogical requirements of the BA Specialization in Early Childhood and Elementary Education program.

THEO 398 *Selected Topics in Theological Studies* (3 credits)

THEO 399 *Selected Topics in Theological Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.
NOTE: All 400-level Theology courses have as their prerequisite an appropriate 300-level Theology course, or its equivalent, with permission of the Department.

THEO 402 *Pastoral Ministry* (3 credits)
The course introduces the student to the history and theology of pastoral ministry.

THEO 404 *Practicum in Pastoral Ministry* (3 credits)

Prerequisite: THEO 402 and permission of the Department. This course complements THEO 402 as the internship and field exploration of a particular pastoral ministry. It will be supervised by experts or experienced individuals in the various fields of ministry, e.g. eldercare, bereavement, hospital, school, youth ministries, and others.

THEO 406 *Scriptural Exegesis* (3 credits)
Prerequisite: THEO 202 or 203; THEO 301. This course is especially designed to guide students through the process of historical-critical exegesis. It provides a strong background in reading Biblical texts, and students acquire in-depth knowledge and the ability to analyse Biblical texts and communicate the results of their research.
NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 408 *Classical Theological Texts: Reading and Interpretation* (3 credits)

Prerequisite: THEO 201 or 233; THEO 331 or 333 or 335 or 337, or permission of the Department. This is a final-year integrative course dedicated to exploring texts and issues of crucial importance to the discipline of theology.
NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 410 *Honours Tutorial* (3 credits)
Prerequisite: Permission of the Department; enrolment in the Honours program. This course provides students with background studies in central theological issues and writers. Students prepare an annotated bibliography as part of the requirements of the course.

THEO 460 *Honours Essay* (3 credits)
Prerequisite: Permission of the Department; enrolment in the Honours program. Each student works with an individual faculty member in a particular area of theological studies to produce an extensive research paper.

THEO 497 *Selected Topics in Theological Studies* (3 credits)

THEO 498 *Selected Topics in Theological Studies* (3 credits)

THEO 499 *Advanced Topics in Theological Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.400

COMPUTER SCIENCE

The Department of Computer Science and Software Engineering offers a Minor in Computer Science available to students in the Faculty of Arts and Science. For further details on this program, see §71.70.5.

31.500

COLLEGES, INSTITUTES AND SCHOOLS

The Faculty of Arts and Science is the largest Faculty in the University. In order to combat the depersonalization so often found in a large faculty, the Faculty of Arts and Science has created smaller, more manageable units offering a personalized approach to education. At present, there are five such units in existence: Liberal Arts College, Loyola International College, School of Community and Public Affairs, Science College, and Simone de Beauvoir Institute. Each unit is composed of a group of students and fellows who are united by a particular philosophy of education.

Each unit operates in much the same fashion. Normally a student admitted to the University will enrol in a specific department-based program — a Major, Specialization, or Honours. Students in the Liberal Arts College may, however, elect to enrol in the College Major in Western Society and Culture instead of in a departmental program. Similarly, students in the Simone de Beauvoir Institute may enrol in a Major program in Women's Studies. Students who enrol in the School of Community and Public Affairs must follow the Major in Community, Public Affairs and Policy Studies. Students attracted by the particular educational opportunities offered by one of the units will apply to the unit in question. Once admitted to the College, Institute, or School of their choice, students may benefit from the academic curriculum, the extra-curricular activities, and social and intellectual environment provided in each of these units. It is the goal of these units to assist students to broaden their specialized disciplinary education with carefully chosen electives, with specially designed tutorials, and with career-oriented advising, all set in a more personal and friendly "university college" environment.

Each unit has a physical location of its own, where its students may gather to exchange ideas, whether in the classroom or in one of the lounges provided for such interaction. As well, there may be a library of basic books and periodical literature. From time to time, there will be planned activities, special-interest seminars, and stimulating lectures by invited guest speakers.

Each unit has a group of faculty members from within the University assigned as fellows or tutors, whose major function will be to act as student advisors. Together, students and fellows or tutors plan a carefully integrated undergraduate program based on the philosophy of education promoted.

The advantage of this approach to education is that students may utilize the resources of a large Arts and Science Faculty, yet still enjoy the effective interchange of ideas that only a small unit can provide.

31.515

CO-OPERATIVE EDUCATION

Through the Institute for Co-operative Education, the University offers programs in the co-operative format in the Departments of Chemistry and Biochemistry, Economics, Études françaises, Mathematics and Statistics, and Physics in the Faculty of Arts and Science; in the Departments of Building, Civil and Environmental Engineering, Computer Science and Software Engineering, Electrical and Computer Engineering, and Mechanical and Industrial Engineering in the Faculty of Engineering and Computer Science; and in the Departments of Accountancy, Decision Sciences and Management Information Systems and Marketing in the John Molson School of Business.

Co-operative programs in the Faculty of Arts and Science are open to students who are enrolled in many of the Honours and Specialization programs offered by the above Departments.

As it becomes feasible the University may consider offering other disciplines in the co-op format. (Please see §24 of this Calendar.)

31.520

LIBERAL ARTS COLLEGE

Principal and Permanent Fellow

ARIELA FREEDMAN, *Associate Professor*

Permanent Fellows

ERIC BUZZETTI, *Associate Professor*

JARRETT CARTY, *Assistant Professor*

IVANA DJORDJEVIC, *Assistant Professor*

GEOFFREY C. FIDLER, *Associate Professor*

and *Vice-Principal*

TOBIAS FOSTER GITTES, *Assistant Professor*

FREDERICK H. KRANTZ, *Associate Professor*

MARK RUSSELL, *Assistant Professor*

KATHARINE STREIP, *Associate Professor*

Non-Teaching Fellows

PAMELA BRIGHT, *Associate Professor,*

Theological Studies

ANDRÉ FURLANI, *Assistant Professor, English*

IRA ROBINSON, *Professor, Religion*

Location

Sir George Williams Campus

Annex RR, Room: 103

514-848-2424 ext. 2565

Objectives

The Liberal Arts College, a small community of fellows and students, provides a unique liberal arts emphasis within the Faculty of Arts and Science. Built on a core of eight courses, the multidisciplinary curriculum is designed to guide students in exploring the foundations and development of Western civilization and culture. The aim is to foster the major values of the Western tradition — those of critical thinking and respect for intellectual freedom.

The major goal of Liberal Arts College is to assist the student in the process of becoming an educated person. The College seeks to translate into modern idioms the traditional vision of education as a preparation for life. Its core courses and seminars, sharing a common concern with the changing nature of society and culture, aim at the development of an informed critical consciousness.

Emphasis is also placed on sharpening the basic expressive and analytic tools indispensable to social and cultural understanding. All College students are expected to present, or to acquire, a knowledge of a second language (normally, French), necessary for their research and to write and to express themselves clearly. Training in research techniques is stressed, and original, independent work encouraged.

Liberal Arts College, linking demanding general education to significant specialization, is committed to serious intellectual work. Through its curriculum, staff, standards, and academic environment, it hopes to communicate the excitement and creativity of such engagement to its students.

Liberal Arts College Admission and Program Requirements

Students admitted to the University and seeking to enter the College must have a "B" average from Cegep, or its equivalent. All students upon admission must demonstrate proficiency in English composition and a second language, or undertake necessary make-up work.* All applicants should apply through the Office of the Registrar; they should also call or write the College for an interview. Mature students are admitted to the College on the basis of an interview and an examination of their record. Full-time degree candidates will normally complete their College core curriculum within three academic years; part-time degree candidates should complete their College core curriculum within six academic years. Students who have been admitted to departmental Honours programs must maintain a "B" average in their College core curriculum; all others must maintain a "C" average in their College core curriculum. All Honours students in the College are expected to undertake significant original work, on a staff-guided basis, in their final year.

**Les étudiantes et étudiants francophones devront donner la preuve de leur connaissance de la langue anglaise.*

Students seeking admission to the Honours program may apply either for direct entry on the University application form or, once in the program, to the College's Honours advisor normally following the completion of thirty credits.

Staff

Faculty fellows chosen from the University's Departments form the staff of all College courses, seminars, and tutorials. Teaching fellows are resident in the College, as is its principal, who also teaches in the core curriculum.

Facilities

Liberal Arts College is located on Concordia University's downtown Sir George Williams Campus. Its seminar and tutorial teaching is done in the same building that houses the College's principal and core fellows. The College has student study areas, a course-materials library, and audio-visual facilities, as well as common room and a collection of important newspapers, journals, and periodicals. The College, the focus of an extra-curricular program of visiting speakers and cultural events, is a place where the exchange of ideas and views generated in courses and seminars continues on a more informal basis.

Counselling

Close student-faculty contact and exchange is part of the Liberal Arts College's stress on serious intellectual work. Each student is assigned to a faculty fellow who acts as a personal advisor, and who follows the student's progress through the College, advising on the choice of disciplinary or area specialization. All students' work is evaluated annually by the principal and fellows.

College Council

Council, composed of fellows and students, is the formal decision-making body of Liberal Arts College. It meets regularly, chaired by the principal, as a forum in which current issues and future policy are discussed and decisions taken. Council is that body which ensures the democratic participation of all members of the College in its on-going academic and extra-curricular work.

Programs

All Liberal Arts College students must take the core curriculum. These interrelated courses constitute a significant segment of the course work required for College-sponsored BA programs. Liberal Arts College stresses Honours-level work, although a student may, with the permission of the College, combine the core curriculum with a departmental Specialization or Major program, or with the Individual Studies programs.

42 Liberal Arts College — Core Curriculum

<i>Stage I</i>		<i>Stage III</i>
18	LBCL 291 ⁶ , 292 ⁶ , 295 ⁶	6 LBCL 490 ⁶
<i>Stage II</i>		
18	LBCL 391 ⁶ , 393 ⁶ , 396 ³ , 397 ³	

In addition to completing the core curriculum, students must meet the Faculty of Arts and Science degree requirements and complete a departmental Major, Specialization, or Honours program, or the Individual Studies program, or the Major in L.A.C. Western Society and Culture.

The core curriculum may also be applied towards Specialization or Honours work in the Individual Studies Program. (See §31.170 of this Calendar).

All College students must consult with a College advisor before selecting courses in other disciplines or fields. Generally, courses in the Liberal Arts College are open only to members of the College.

Honours candidates must maintain a "B" average in their College courses, with no grade lower than a "C". Students in a Major or Specialization program must maintain a "C" average in their College courses, with no grade lower than a "D".

60 BA Honours in Western Society and Culture		<i>Stage II</i>
<i>Stage I</i>		18 LBCL 391 ⁶ , 393 ⁶ , 396 ³ , 397 ³
<i>Stage II</i>		<i>Stage III</i>
18	LBCL 291 ⁶ , 292 ⁶ , 295 ⁶	6 LBCL 490 ⁶
<i>Stage II</i>		
21	LBCL 391 ⁶ , 393 ⁶ , 396 ³ , 397 ³ , 494 ³	30 Minor in Western Society and Culture
<i>Stage III</i>		<i>Stage I</i>
15	LBCL 490 ⁶ , 495 ³ , 496 ⁶	18 LBCL 291 ⁶ , 292 ⁶ , 295 ⁶
<i>Stage II</i>		<i>Stage II</i>
6	Chosen in consultation with the Honours advisor	12 LBCL 391 ⁶ , 393 ⁶
42 BA Major in Western Society and Culture		
<i>Stage I</i>		
18	LBCL 291 ⁶ , 292 ⁶ , 295 ⁶	

The College advises students who are enrolled in the BA Major in Western Society and Culture to take, in addition, some form of concentrated study (Major, Minor, etc.) within a single Department or field of study.

Further information on core courses and College programs generally may be obtained either by writing for the Liberal Arts College Informational Brochure or by calling the Liberal Arts College. Personal interviews with a fellow of Liberal Arts College may be arranged through the secretary.

Admission into a departmental Honours program requires the approval of the Department.
Admission into the College's Honours program requires the approval of the College.

Students seeking admission to a departmental or college Honours program will be bound by the Honours requirements outlined in §16.2.3 of this Calendar.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

LBCL 201 *Great Books: Western History and Thought from Antiquity through the Renaissance* (3 credits)

Social and political theory are central, and art, music, and scientific thought are represented. Key texts include the *Bible*, Plato's *Republic*, Thucydides' *Peloponnesian Wars*, St. Augustine's *City of God*, and Machiavelli's *Prince* and *Discourses*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 201 may not take this course for credit.

LBCL 202 *Great Books: Western Culture and Expression from Antiquity through the Renaissance* (3 credits)

Literature, religion, and philosophy are central, and art and music are represented. Key texts include Homer's *Odyssey*, Virgil's *Aeneid*, Montaigne's *Essays*, and Shakespeare's *King Lear*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 202 may not take this course for credit.

LBCL 203 *Great Books: Western History and Thought from the Reformation through Modernity* (3 credits)

Social and political theory are central, and art, music, and scientific thought are represented. Key texts include Calvin's *Institutes*, Descartes' *Discourses on Method*, Hobbes' *Leviathan*, and Mill's *Essay on Liberty*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 203 may not take this course for credit.

LBCL 204 *Great Books: Western Culture and Expression from the Reformation through Modernity* (3 credits)

Literature, religion, and philosophy are central, and art and music are represented. Key texts include Milton's *Paradise Lost*, Rousseau's *Confessions*, Stendhal's *The Red and the Black*, and Nietzsche's *Genealogy of Morals*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 204 may not take this course for credit.

LBCL 291 *Structure and Dynamics of Western Civilization I* (6 credits)

Prerequisite: Registration in the Liberal Arts College, or permission of the College. This

course emphasizes the intellectual, cultural, and political traditions from the Biblical period and classical antiquity to the mid-seventeenth century. Texts studied are related to changing social and historical contexts. Primary sources may include *Genesis*, Plato, *Republic*, Marcus Aurelius, *Meditations*, Thomas Aquinas, *Summa Theologica*, Machiavelli, *Prince and Discourses*, and Spinoza, *Theological-Political Treatise*.

LBCL 292 *Modes of Expression and Interpretation I* (6 credits)

Prerequisite: Registration in the Liberal Arts College, or permission of the College. A study of major Western literary, religious, and philosophical traditions, involving the reading and interpretation of significant texts from antiquity to the mid-seventeenth century. Emphasis is placed on development of writing skills and interpretative analysis. Primary texts may include Homer, *Odyssey*, Plato, *Symposium*, Augustine, *Confessions*, Dante, *The Divine Comedy*, and Racine, *Phèdre*.

LBCL 295 *History of Art* (6 credits)

Prerequisite: Registration in the College, or permission of the College. This course is an integrated study of the nature of the visual arts from antiquity to the twentieth century. Artistic expression is examined through chronological and thematic approaches, with attention to the relation between art and society.

LBCL 298 *Liberal Arts College Selected Topics* (3 credits)

LBCL 299 *Liberal Arts College Selected Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LBCL 391 *Structure and Dynamics of Western Civilization II* (6 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course emphasizes the intellectual, cultural, and political traditions from the mid-seventeenth century to 1914. Texts studied are related to changing social and historical contexts. Primary texts may include Locke, *Second Treatise of Government*, Rousseau, *The Social Contract*, Wollstonecraft, *A Vindication of the Rights of Woman*, Marx, *Capital*, and Freud, *Dora*.

LBCL 393 *Modes of Expression and Interpretation II* (6 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. A study of major Western literary, religious and philosophical traditions from the mid-seventeenth century to 1914. Primary texts may include Stendhal, *The Red and the Black*, Diderot, *Le neveu de Rameau*, Goethe, *Faust*, Nietzsche, *The Genealogy of Morals*, and Baudelaire, *Les fleurs du mal*.

LBCL 396 *History of Music* (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295. This music history course is designed to introduce the important developments in the history of European music from the Classical period to the present day. Course content introduces students to musical structure, period styles, and selected works by major composers, setting these within their historical contexts.

LBCL 397 *The Sciences and Society* (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. The science component of the Liberal Arts College core curriculum emphasizes the nature of modern science, principally through its development across the nineteenth and twentieth centuries. Primary sources may include Darwin, *Origin of the Species* and Kuhn, *The Structure of Scientific Revolutions*.

NOTE: Students who have received credit for LBCL 493 may not take this course for credit.

LBCL 398 *Liberal Arts College Selected Topics* (3 credits)

LBCL 399 *Liberal Arts College Selected Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LBCL 490 *The Twentieth Century: Forms, Themes, Critiques* (6 credits)

Prerequisite: LBCL 391; LBCL 393; or permission of the College. This course emphasizes key issues in contemporary society and culture. Major twentieth-century texts and documents — philosophical, literary, political, and artistic, as well as analytical materials drawn from history and the social sciences, are read. Primary sources may include de Beauvoir, *The Second Sex*, Bell, *The Cultural Contradictions of Capitalism*, Woolf, *To the Lighthouse*, Levi, *Survival in Auschwitz*, Hayek, *The Fatal Conceit*, as well as theorists such as Foucault, Irigaray, Kristeva, McKinnon, Lévi-Strauss, Barthes, and Derrida.

LBCL 491 *Integrative Seminar* (6 credits)

Prerequisite: Permission of the College. Students who have received credit for LBCL 490 may register for LBCL 491 provided the subject matter is different.

LBCL 494 *Liberal Arts College Special Studies: Antiquity to Renaissance/Reformation* (3 credits)

Prerequisite: Permission of the College. This course addresses a selected field within the chronological period above, emphasizing focused study of specific primary texts, as well as significant works of interpretation as appropriate to the selected field. Themes normally vary on a year-to-year alternating basis, so as to reflect the broad orientations (Structures and Dynamics of Western Civilization, Modes of Expression and Interpretation) which inform the Core Curriculum.

LBCL 495 *Liberal Arts College Special Studies: Seventeenth Century to the Present* (3 credits)

Prerequisite: Permission of the College. This course addresses a selected field within the chronological period above, emphasizing focused study of specific primary texts, as well as significant works of interpretation as appropriate to the selected field. Themes normally vary on a year-to-year alternating basis, so as to reflect the broad orientations (Structures and Dynamics of Western Civilization, Modes of Expression and Interpretation) which inform the Core Curriculum.

LBCL 496 *Liberal Arts College Honours Essay Seminar* (6 credits)

Prerequisite: This course is open only to students at the College who have completed Stage II courses at the required academic level of performance. The student works with an individual faculty member in a chosen and approved area of the Core Curriculum, and must produce a sustained piece of written work approximately 40 pages in length. Students must also participate in an Honours Seminar in connection with their research and writing.

LBCL 498 *Liberal Arts College Advanced Topics* (3 credits)

LBCL 499 *Liberal Arts College Advanced Topics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.535 LOYOLA INTERNATIONAL COLLEGE

Principal

ROSEMARIE SCHADE, Associate Professor,
History

JOHN P. DRYSDALE, Professor Emeritus,
Sociology and Anthropology

DAVID HOWES, Professor, Sociology and
Anthropology

Fellows

PAUL ALLEN, Assistant Professor, Theological
Studies

JAMES MOORE, Professor Emeritus,
Political Science

PAMELA BRIGHT, Professor, Theological Studies

ALAN NASH, Associate Professor, Geography,
Planning and Environment

WILLIAM BUKOWSKI, Professor, Psychology

ROSS PERIGOE, Associate Professor,

WILLIAM P. BYERS, Professor, Mathematics
and Statistics

Journalism

DANIEL SALÉE, Professor, Political Science

Location

Loyola Campus

Administration Building, Room: AD 502

Tel.: 514-848-2424 ext. 2125

E-mail: loyolaic@alcor.concordia.ca

Objectives

Loyola International College is designed as a secular college that addresses the academic needs of selected undergraduate students who seek to balance discipline-based instruction with interdisciplinary and cross-disciplinary communication in the arts and sciences. The educational philosophy of the College incorporates several objectives: to integrate international and global perspectives into higher education; to foster understanding of how the individual and society can operate more effectively in a global context of increased intercultural interaction; to balance discipline-based instruction with interdisciplinary inquiry and cross-disciplinary communication; and to promote responsible citizenship and leadership in the twenty-first century.

Admission Requirements for Loyola International College

Students may apply simultaneously to Concordia University and Loyola International College by checking the box for "Loyola International College" in Section 3 of the Concordia University Application for Admission, or by selecting "Loyola International College" from the drop-down menu the Program(s) tab of the Online Application. Further information about the College can be obtained by telephone, e-mail, or by visiting the College's offices.

All students registered in the Minor or Foundation Year are considered members of the College.

Other undergraduate students are welcome to become members if they successfully complete three LOYC courses.

Performance Requirement

Students must obtain a minimum grade of "B-" in all LOYC courses in order to continue in the College.

Facilities

Loyola International College is located on Concordia University's Loyola Campus. All of its courses are taught in the same building that houses the College's offices and student space. The College has student study and lounge areas, a small library, and a conference room, to which all College members have access. The facilities are intended to complement Loyola International College's role as a community where students have the opportunity to pursue both their academic and extracurricular interests in a supportive and stimulating environment.

Programs

Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.

24 Minor in Diversity and the Contemporary World

15 Chosen from LOYC 210³, 220³, 230³,
310³, 320³, 330³, 340³

6 Chosen from BIOL 210³; ECON 319³;
ENGL 382⁶; GEOG 204³, 210³, 220³;

HIST 283³; PHIL 233³, 235³; POLI 213³,
303³, 305³, 388³, 394³; THEO 233³

3 LOYC 420³

NOTE: The Minor is designed for students to
combine with an Honours, Specialization, or
Major in another discipline.

15-27 Foundation Year

6 LOYC 201³, 202³

*9-21 ANTH 272³; CHEM 209³; HIST 201³, 202³; POLI 205³; RELI 216³; THEO 233³

**Students must obtain permission from the Principal of the Loyola International College regarding course substitutions. Students who*

have received credit for these courses within their departmental program may not take these courses for credit toward their Loyola International College Foundation Year.

NOTE: The Foundation Year is designed for students pursuing a 120-credit Extended Credit Program (ECP) in an undergraduate degree.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

LOYC 201 *The Idea of Modernity* (3 credits)

The fundamental ideas and assumption of the modern Western world were formed in the seventeenth-century European Enlightenment. This course begins with an historical overview of the Enlightenment, followed by an interdisciplinary investigation of the idea of modernity. It focuses on the central modern concepts of a person, society, nature, and good and evil, and looks at some challenges to the idea of modernity. Finally, it explores current pressures that have led to the contemporary form of thought known as postmodernism.

LOYC 202 *What is the Environment?* (3 credits)

The purpose of this course is to explore the broad set of interdependent phenomena that comprise the environments in which people live. These are: a) the natural environment of rocks, air, water, plants, and animals; b) the built environment including characteristics of cities, workplaces, and homes; and c) the cultural environment including the beliefs, attitudes, and institutions that affect how people perceive and behave in the environment.

LOYC 210 *The Twentieth Century* (3 credits)

This course provides select coverage of aspects of the historical forces and events that shaped the twentieth century. The historical background of issues such as wars and peace, colonialism and postcolonialism, economics and the environment, and questions about ethnic and national diversity and cultural perception are explored. The course is intended to develop critical thinking together with basic bibliographic and writing skills. *NOTE: Students who have received credit for HIST 283 or HISZ 283, or for this topic under an HIST 298 or HISZ 298 number, may not take this course for credit.*

LOYC 220 *The Contemporary World* (3 credits)

From a variety of perspectives, including historical, environmental, economic, and cultural, this course examines major issues facing the world today. These issues may include international trade and the economy, the regulation of garbage and pollution, the decline in cultural variability, the spread and control of disease, and the effects of mass communication. This course

is intended to develop an appreciation of a global view of the challenges which the world is likely to face in the next few decades.

LOYC 230 *Globalization and Diversity* (3 credits)

This course explores the main differences between the world's major cultures, religious beliefs, and philosophies, and addresses the tensions between establishing universal values and maintaining cultural diversity in an age of accelerating globalization. There is also an emphasis on the conception of different levels of social complexity, principally the role of the individual, the interpersonal, and the group within a society. This course is intended to develop team research and presentation skills, and the ability to communicate and work effectively within a small group setting.

LOYC 310 *Science and the Contemporary World* (3 credits)

This course explores the basic issues of the philosophy of science by examining the nature of science as an activity and a way of understanding the world. Cultural variations in the philosophy of science are discussed as well as contemporary disputes involving the interpretation of science: Darwinism; the "Science Wars"; science and religion; and feminist critiques of science. This course is intended to develop critical thinking and analysis, and deductive and inductive reasoning.

LOYC 320 *Biodiversity on Earth* (3 credits)

The current state of biodiversity around the world and the forces that affect this diversity are the main focus of this course. It addresses the origins of this diversity, the advantages of variability in the environment for human life, and the contemporary challenges to this diversity. This course is intended to emphasize holistic thinking and system analysis.

LOYC 330 *Self, Culture, and Development* (3 credits)

This course examines, from a psychological perspective, how the concept of self varies across cultures. Whereas some cultures embrace the concept of the individual, other cultures emphasize the communal nature of social and personal existence. This theme is explored from several perspectives including theory about development, the treatment of

"self" in literature, cultural variations in the concept of human rights, and the link between self and society. This course is intended to demonstrate the interface between the medical and social sciences and the analysis of change.

LOYC 340 *Culture and Communication*
(3 credits)

This course is an anthropological approach to variations in cultural experience as they relate to communication. Students explore modes of expression and communication, including literature and film, with a view to examining questions of interpretation, aesthetics, and ethical judgement. Personal expression and communication are also discussed. This course is intended to develop an awareness of the role of imagination and creativity in expression and interpretation, and sensitivity to the role of

cultural and other differences in processes of communication.

NOTE: Students who have received credit for LOYC 410 may not take this course for credit.

LOYC 420 *Integrative Seminar* (3 credits)

Prerequisite: 12 credits of LOYC courses; or permission of the College. This course focuses on the conceptualization of cross-disciplinary inquiry and the problems of interdisciplinary communication. The role of discipline-based and cross-disciplinary research is studied. A brief intellectual history of discipline-formation and **emerging interdisciplinary fields is discussed.** One contemporary global issue is usually examined in detail in this context. This course is intended as a seminar for students completing the Minor in Diversity and the Contemporary World.

Principal

ERIC SHRAGGE, Associate Professor

Vice-Principal and Graduate Program Director

MARGUERITE MENDELL, Associate Professor

Professor

DANIEL SALÉE

Assistant Professor

ANNA KRUYNSKI

Fellows

WILLIAM BUXTON, Professor, Communication

Studies

MIKE GASHER, Associate Professor, Journalism

ALAN NASH, Associate Professor, Geography,
Planning and Environment

LORNA ROTH, Associate Professor

FILIPPO SALVATORE, Associate Professor,

Modern Languages and Linguistics

JOHN ZACHARIAS, Professor, Geography,

Planning and Environment

Associate Fellow

MARVIN HERSHORN, Lecturer, Political Science

*Location*Sir George Williams Campus
Annex CI, Room: 101
514-848-2424 ext. 2575*Objectives*

The School of Community and Public Affairs (SCPA) offers a multidisciplinary program in public policy analysis. The School prepares its graduates to be knowledgeable participants in the policy-making process in the private, public, and community sectors.

An innovative combination of academic and practical training exposes students to a wide range of public issues. In small classes encouraging participation, students develop specialized abilities to do research, to communicate, and to organize public consultations and debates. An internship program also enables students to gain the necessary experience of working in a public affairs job.

The School will be of interest to excellent students in a variety of disciplines, including economics, history, political science, sociology, urban studies, journalism, and communication studies. While some of our students enter the work force upon completion of their undergraduate degree, the majority continue their education. SCPA graduates tend to do graduate work either in their disciplines or, more often, in professionally-oriented programs including Public or Business Administration, International Affairs, Industrial Relations, and Law.

The historic Mackay Street building which the School occupies is an ideal site for small classes, public lectures, social events, and meetings. School facilities include a common room, a reading room and documentation centre, a seminar room, a computer room, and faculty and student offices.

Program

Students who enrol in the School of Community and Public Affairs must follow, in sequence, a three-stage program comprised of the following courses:

**42 BA Major in Community, Public Affairs
and Policy Studies**

*Stage I*12 SCPA 201³, 203³, 215³; INTE 296³3 Chosen from SCPA 204³/POLI 204³ or
SCPA 211³/POLI 211³3 Chosen from SCPA 205³/HIST 205³ or
SCPA 210³/HIST 210³*Stage II*9 SCPA 301⁶, 321³3 Chosen from SCPA 353³/SOCI 353³;
SCPA 333³/SOCI 333³; SCPA 355³/
SOCI 355³; SCPA 398³*Stage III*9 SCPA 411³, 412³, 498³3 Chosen from SCPA 460³/COMS 460³;
SCPA 461³/COMS 361³; SCPA 465³/
COMS 465³**The Disciplinary Program**

Students enrolled in the SCPA Major program are strongly encouraged to combine the School's Major program with a departmental Major, Specialization, or Honours program, and meet the Faculty of Arts and Science degree requirements.

Performance Requirements

Students are required to maintain an average of "B-" in program courses.

Entrance Requirements

Students admitted to the University and seeking to enter the School must have achieved a "B" average, or the equivalent at the previous educational level. Students wishing to enter the School will be interviewed personally and asked to complete a writing test. The interview process also serves to evaluate their language skills in both English and French. In exceptional circumstances, a candidate who has failed to meet the grade requirements might be admitted on the basis of a personal assessment of potential capacities.

For further information on curriculum, programs, personnel, and objectives, please call 514-848-2424 ext. 2579.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

SCPA 201 *Introduction to Public Policy and the Public Interest* (3 credits)

This course introduces students to the theoretical, philosophical, and ethical foundations as well as the social logic of public policy formulation in modern societies. Using a multidisciplinary approach, it pays particular attention to the complex interaction between groups, individuals, and institutions in society, and brings students to consider issues related to the nature of the modern state, business-government relations, the labour movement, non-profit and community organizations, the influence of interest groups, media and international institutions on the policy agenda.

NOTE: Students who have received credit for SCPA 300 or SCPZ 201 may not take this course for credit.

SCPA 203 *Community and Public Affairs in Quebec and Canada* (3 credits)

This course examines the interaction between civil society organizations and the state in the particular context of Quebec and Canada. It focuses on the labour movement, social movements and interest groups, and analyses their role and influence in the policy-making process in Quebec and Canada, especially with regard to social policy, socio-economic development and human rights.

NOTE: This course is taught in French.

NOTE: Students who have received credit for SCPA 300 may not take this course for credit.

SCPA 204 *(also listed as POLI 204) Introduction to Canadian Politics* (3 credits)

This course is a basic introduction to the fundamental issues of Canadian public life and the federal political system. It presents an overview of the constitution, institutions, political parties, electoral system, interest groups, and public opinion that represent the essential components of Canada's political culture and government.

NOTE: Students required to take this course under Political Science as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 205 *(also listed as HIST 205) History of Canada, Post-Confederation* (3 credits)

A survey of Canadian history from Confederation to the present, emphasizing readings and discussions on selected problems.

NOTE: Students required to take this course under History as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 210 *(also listed as HIST 210) Quebec since Confederation* (3 credits)

A survey of the history of Quebec from the time of Confederation until the present. While due emphasis is placed on political developments in the province, the purpose of the course is to acquaint the student with the significant economic and social trends in modern Quebec.

NOTE: Students required to take this course under History as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 211 *(also listed as POLI 211) Quebec Politics and Society/ La vie politique québécoise* (3 credits)

This course is a study of the changing party structure and political issues in Quebec and their relationship to constitutional, cultural, and economic factors.

On étudiera dans ce cours l'évolution structurelle des partis et des questions politiques au Québec en fonction de facteurs d'ordre constitutionnel, culturel et économique.

NOTE: Students required to take this course under Political Science as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

NOTE: The course will be offered in both English and French on a rotational basis. Please consult the Undergraduate Class Schedule for details.

SCPA 215 *Economics for Public Policy and Community Development*
(3 credits)

Based on an overview of current economic issues, this course introduces students to the fundamental analytical tools and concepts that are necessary to understand economic public policy and relevant to community development and empowerment.

NOTE: Students who have received credit for SCPZ 215 may not take this course for credit.

SCPA 298 *Selected Topics in Community and Public Affairs* (3 credits)

SCPA 299 *Selected Topics in Community and Public Affairs* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCPA 301 *Social Debates and Issues in Public Affairs and Public Policy*
(6 credits)

Prerequisite: Successful completion of Stage I. This course emphasizes a deeper understanding of the process by which public policies are developed, implemented, and advocated, and of the role played by various institutions or groups in this process. Each year, a new set of key policy issues is selected for discussion and analysis. Students work in teams and are required to do case studies of institutions or groups relevant to the policy or public affairs issue they have chosen. The focus is on developing both communication skills, through oral and written presentations, and organizational skills as each team must organize one public panel discussion on one of the selected issues. The course takes place over the Fall and Winter Terms.

NOTE: Students who have received credit for SCPA 401 may not take this course for credit.

SCPA 321 *Public Affairs Strategies*
(3 credits)

Prerequisite: Successful completion of Stage I or permission of the School. This course examines and analyses the ways in which corporate, public, and community organizations anticipate, monitor, and manage their relations with the social, political, and environmental forces which shape their operations and influence their action in their respective field. It familiarizes students with the strategies most often used in public affairs management, and develops the skills required for effective results.

SCPA 333 *(also listed as SOCI 333)*
Political Sociology (3 credits)

Prerequisite: Successful completion of Stage I. This course is concerned with the nature, organization, distribution, determinants, and consequences of power in social systems.

NOTE: Students required to take this course under Sociology as part of a Major or Speciali-

zation in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 353 *(also listed as ANTH 353; SOCI 353)*
Community Studies (3 credits)

Prerequisite: Successful completion of Stage I.

This course involves the study of communities both as locales and as symbolic constructions. The major theoretical approaches used in community studies are evaluated in relation to research and applied interests. Special attention is given to sensitizing students to issues concerning gender, race, ethnicity, and class at the community level.

NOTE: Students required to take this course under Anthropology or Sociology as part of a Major or Specialization in either of these disciplines must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 355 *(also listed as ANTH 355; SOCI 355)*
Urban Regions (3 credits)

Prerequisite: Successful completion of Stage I.

This course reviews the work of anthropologists and sociologists in cities. The focus is on the social organization of social life in First and Third World urban spaces. Consideration is also given to the particular dynamics of fieldwork in urban settings.

NOTE: Students required to take this course under Anthropology or Sociology as part of a Major or Specialization in either of these disciplines must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 398 *Special Area Study in Community and Public Affairs*
(3 credits)

Prerequisite: Successful completion of Stage I.

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCPA 411 *Internship* (3 credits)

Prerequisite: Successful completion of Stages I and II. An essential part of the School's program is a one-semester apprenticeship in some aspect of community and public affairs. After completing 60 credits of the BA program, including Stages I and II, students are required to complete a practicum that will allow them to test their skills in a real situation. Placements may be drawn from all areas of possible employment, including the private sector, government and community service organizations. Students are expected to participate fully in finding and defining possible internships. Employers are asked to join in an evaluation of the work period. Students are required to submit a written report which summarizes and evaluates their work experience.

SCPA 412 *Senior Research Seminar*
(3 credits)

Prerequisite: Successful completion of Stages I and II. In this course, students work in groups

and are required to play out the position of a given corporate, public, or community organization in a simulation of real-life interaction between social and political actors over a particular policy issue. To this end, they must research and prepare all the necessary material (such as briefs, position papers, press kits) that will allow them to defend and make their policy position known. The actual simulation takes place in a one-day event at the end of the term.

SCPA 460 (also listed as COMS 460)
Political Communication
(3 credits)

Prerequisite: Successful completion of Stages I and II. The relationships between media institutions and political institutions, both in Canada and internationally, are examined. Issues such as: the flow of political information; the social and political construction of news; the politics of regulation; the politics of influence in campaigns, nation-building socialization through media; ideology in the media, and alternatives to traditional media are explored.

NOTE: Students required to take this course under Communication Studies as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 461 (also listed as COMS 361)
Propaganda (3 credits)

Prerequisite: Successful completion of Stages I and II. The aim of this course is to recognize the

orchestration of the elements of propaganda in media, and to develop the means to deal with it. Course methodology includes lectures, discussions, and projects.

NOTE: Students required to take this course under Communication Studies as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 465 (also listed as COMS 465)
Rhetoric and Communication
(3 credits)

Prerequisite: Successful completion of Stages I and II. This course focuses upon communication as persuasive or as producing identification. Emphasis is placed upon the role of communication in civic affairs. Classical and contemporary approaches to rhetorical theory and criticism are examined.

NOTE: Students required to take this course under Communication Studies as part of a Major or Specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 498 Special Topics in Community, Public Affairs and Policy Studies (3 credits)

Prerequisite: Successful completion of Stages I and II. This course provides focused, in-depth examination and analysis of a particular policy topic, public affairs issue, or problem of community development. The subject of inquiry changes every year.

Program Objectives

The First Peoples Studies program is a Major designed to introduce the student to the world of First Peoples (First Nations, Inuit, and Métis), specifically within the Quebec context. It investigates the history, the current situation, and the changing needs of First Peoples. Taught from First Peoples perspectives and based on sound, culturally sensitive research, the program's aim is to bring accurate awareness and a better understanding of First Peoples issues, develop further understanding of society's standing in relation to First Peoples, and build bridges towards mutual understanding between Quebec society and First Peoples. Students are encouraged, though not required, to take either a Minor in another area of study, or a second Major in order to facilitate the acquisition of complementary knowledge and practical skills relevant to contributing to the well-being and advancement of First Peoples.

Program

42 BA Major in First Peoples Studies*

Stage I

9 FPST 201³, 202³, 203³

6 Chosen from FPST 210³, 211³, 212³, 298³

Stage II

9 FPST 301³, 302³, 303³

6 Chosen from FPST 310³, 311³, 312³, 320³, 321³, 322³, 323³, 398³; RELI 368³; WSDB 381³

Stage III

6 FPST 401³, 402³

6 Chosen from FPST 410³, 411³, 412³, 413³, 414³, 415³, 490³, 491³; COMS 419³

**Subject to MELS approval.*

Courses

FPST 201 Introduction to First Peoples Studies (3 credits)

This course introduces the guiding concepts central to First Peoples Studies at Concordia. These guiding concepts are often misunderstood by mainstream society. Themes include the Medicine Wheel as a structuring approach to course content and teaching/learning; worldviews; colonization and decolonization; First Peoples

thought and knowledge; the diversity among First Peoples; and individual and community empowerment within First Peoples frames of reference. Principles and practices of dialogue and cross-cultural communication are introduced. A key process goal of the course is for students to explore, with increasing skill and knowledge, their own motivations, positioning, and goals in relation to pursuing First Peoples Studies.

FPST 202 *Research Strategies in First Peoples Studies* (3 credits)

This course introduces basic concepts, practices, and issues for study and research consistent with the goals of First Peoples Studies, including the historical relation of First Peoples to academic research; ethical considerations; the social construction of knowledge, the influence of First Peoples thought, knowledge, and ways of knowing on the development of relevant contemporary research; basic steps of designing, carrying out, and presenting research within several contemporary models, including participatory research; constructive relations of people of other cultures to researching in the area; qualitative and quantitative research methods, including asking research questions; and basic skills of interviewing, as well as treating, analysing and presenting interview data, within qualitative research.

FPST 203 *First Peoples of Canada* (3 credits)

This course provides an introductory overview of knowledge related to the eleven cultural groups of First Peoples in Canada. It explores theories of migration, geographic location, cultural and linguistic diversity, historical socio-economic and political systems as well as the relationships with the environment and traditional practices and beliefs. In-depth focus is placed on representative nations within each group.

FPST 210 *Haudenosaunee Peoples* (3 credits)

This course traces the history of the Haudenosaunee (Iroquois) from the period of the founding of the Confederacy to the present. With particular focus on the Kanien'kehaka (Mohawk) of Quebec, it includes discussion on the culture, language, and structure of Haudenosaunee society, the formation of the Haudenosaunee Confederacy, traditional philosophies such as the Kaienerekowa (Great Law of Peace) and the Code of Handsome Lake, Kanonsesro:non (people who adhere to the ways of the Longhouse), symbolism, as well as contemporary issues, including the impact of Euro-Canadian government policies.

FPST 211 *Algonquian Peoples* (3 credits)
This course explores the specific cultures of the Algonquian peoples of Canada with an emphasis on the peoples of Quebec (the Abenaki, the Algonquin, the Attikamek, the Cree, the Innu, the Malecite, the Mik'maq, and the Naskapi) and in particular the Eeyouch (the Cree Nations). From a historical perspective and using a sociological approach, this course examines social and political structures, gender-defined roles, relationship with the environment, as well as spirituality and language. This course also examines changing roles and structures influenced by colonization, including the imposition of federal policies.

FPST 212 *Inuit Peoples* (3 credits)
This course explores the specific cultures of the Inuit peoples in Canada with a particular

emphasis on the Inuit people of Nunavik (Northern Quebec). The course examines social and political structures, gender-defined roles, the Arctic way of life, the Inuit language and its dialects, as well as the spiritual beliefs of the Inuit. This course also examines changing roles and structures influenced by colonization, including the imposition of federal policies.

FPST 298 *Selected Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

FPST 301 *The Indian Act* (3 credits)

Prerequisite: FPST 201, 202. This course focuses on the Indian Act, with an emphasis on its impact on the First Peoples of Quebec. This includes discussion of the events leading up to its imposition, its implications for First Peoples cultures and societies, as well as related policies and other instruments of assimilation and colonization. Issues of accommodation and resistance are discussed. Effects of proposed changes to the Indian Act are analysed and alternative solutions are explored.

FPST 302 *First Peoples and Education* (3 credits)

Prerequisite: FPST 201, 202. This course traces the history of the education of the First Peoples. It explores current issues in education, including educational approaches defined and implemented by First Peoples. Topics covered include traditional ways of learning and teaching. The issue of colonization, including early attempts at religious and linguistic conversion, as well as Canada's residential school system and its continuing legacy, are discussed in depth.

FPST 303 *First Peoples and Health* (3 credits)

Prerequisite: FPST 201, 202. This course addresses First Peoples wellness philosophies and healing approaches in dealing with contemporary health problems. It draws significantly on historical perspectives of First Peoples mental, physical, spiritual, and emotional health issues, including pre-contact health and environments, the introduction of alcohol and viral disease, as well as the emergence of lifestyle-related diseases. Some of the current health issues to be explored include structural inequalities, institutional mistreatment, addictions, diabetes, HIV/AIDS, and mental health.

FPST 310 *Linguistic Introduction to Algonquian Languages* (3 credits)

This course presents a general overview of the eight Algonquian languages spoken in Quebec, with special emphasis on the Cree language. The course introduces the student to basic vocabulary, different dialects and writing systems. It explores the basic components that make up Algonquian

languages, including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages, semantic shift and the use of language as a social tool. This course assists the student to recognize and value the social and cultural context of language.

FPST 311 *Linguistic Introduction to Haudenosaunee Languages*
(3 credits)

This course presents a general overview of the six Haudenosaunee (Iroquoian) languages, with special emphasis on Kanien'kehaka (the Mohawk language). The course introduces the student to basic vocabulary, different dialects and writing systems. It explores the basic components that make up Haudenosaunee languages including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages. This course assists the student to recognize and value the social and cultural context of language.

FPST 312 *Linguistic Introduction to Inuktitut Language* (3 credits)

This course presents a general overview of the Inuktitut language, with special emphasis on the dialect spoken in Nunavik (Northern Quebec). The course introduces the student to basic vocabulary, different dialects, and the syllabic writing system used by Inuit people. It explores the basic components that make up Inuktitut, including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages. This course assists the student to recognize and value the social and cultural context of language.

FPST 320 *First Peoples and the Media*
(3 credits)

This course explores how First Peoples have been portrayed in selected media such as television, film, and advertising by looking at different representations in various industries such as advertising, sports, and tourism. This includes discussion on the relationship between media and First Peoples including the media's impact on relations between the mainstream society and First Peoples. The social role of different forms of media as used by First Peoples in the process of empowerment is also discussed.

FPST 321 *First Peoples and Justice*
(3 credits)

Prerequisite: FPST 301. This course focuses on the relationship between First Peoples and the Canadian justice system. It looks specifically at how the Canadian legal, judicial, and penal system has dealt with First Peoples through time. The course also explores pre-contact forms of justice, tensions between European and indigenous conceptions of justice, First Peoples response to Canadian justice, and the emergence of alternative, indigenous mechanisms of judicial administration within communities in Quebec and Canada.

FPST 322 *First Peoples and the Fur Trade*
(3 credits)

This course provides an in-depth historical and sociological analysis of the impact of the fur trade on the First Peoples of Canada. Topics include the emergence of the fur trade, and fur-trading companies' dependence on First Peoples. Special emphasis is placed on changing demographics as a result of the fur trade, the increasing reliance on European goods, First Peoples entrepreneurial spirit, the birth of the Métis Nation, as well as the evolving political and economic role of women within fur-trading society.

FPST 323 *First Peoples Sacred Stories*
(3 credits)

Prerequisite: FPST 201 or 203. Through storytelling, reading, discussion, and writing, this course explores themes of fundamental human concern for First Peoples. It considers oral traditions as integral to broader, culturally defined systems of knowledge and explores the role of sacred stories in traditional and contemporary societies. This includes discussion on the role of stories as vehicles for encoding and transmitting knowledge about the people, the environment, the culture and history. Stories analysed include creation stories, trickster tales, oral historical accounts, and stories relating to natural phenomena.

FPST 398 *Special Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

FPST 401 *Contemporary Politics in First Peoples Communities*
(3 credits)

Prerequisite: FPST 301. This course focuses on First Peoples politics in the Quebec and Canadian contexts. It explores more specifically the emergence and actions of First Peoples political organizations over the past 40 years, First Peoples relationships with successive federal and provincial governments, movements of national self-affirmation, and the nature of the political interface between competing groups inside First Peoples communities.

FPST 402 *First Peoples Contemporary Social Issues* (3 credits)

Prerequisite: FPST 302, 303. This course addresses contemporary social issues and challenges faced by First Peoples. It analyses the underlying causes of issues such as poverty, lack of formal education, isolation, alcohol and substance abuse, family violence and sexual abuse. The course also examines current healing approaches and programs used to deal with these issues, and fosters discussion on possible alternatives.

FPST 410 *First Peoples Community Development* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course examines the concepts and experi-

ences of community development among First Peoples, with an emphasis on Quebec. Selected community development models, their goals, processes, and means of evaluation, are analysed. The course introduces students to analytical and practical skills in context-sensitive community development guided by First Peoples thought and knowledge. Students explore dynamics of nourishing community participation and leadership, as well as analyse community structures and inter-group relations within communities. Reference is made to on-reserve, urban, rural, and northern contexts. Ethical considerations are discussed. This course includes analysis of case studies.

FPST 411 *First Peoples Treaties and Agreements* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course explores the contemporary issues associated with treaties and indigenous land claims agreements. Emphasis is placed on selected historically significant treaties between the First Peoples, and those between the First Peoples and the Europeans. The original intent and framework of treaties and agreements, the negotiation processes involved, and the implementation of treaties and modern agreements are also discussed.

FPST 412 *First Peoples and Governance* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course examines the political and administrative mechanisms which First Peoples use to arbitrate competing interests, manage conflict, and formulate policies in their communities across Quebec and Canada. The course analyses political and administrative institutions inherited from the Indian Act, as well as governance strategies developed in conformity with First Peoples traditions and in resistance to the Canadian state's institutional dominion. The course also explores the tensions created by the coexistence of European and indigenous modes of governance within and outside First Peoples communities.

FPST 413 *First Peoples International Relations and Diplomacy* (3 credits)

Prerequisite: FPST 321. This course focuses on the actions and interventions of various First Peoples on the international scene, both in the past and in the present. The course's primary aim is to explore the reasons why First Peoples have resorted to international forums and institutions, how they conduct their international action and whether in the end international diplomacy works to their advantage.

FPST 414 *First Peoples Rights Movements* (3 credits)

Prerequisite: FPST 401 and 402, previously or concurrently. This course focuses on the many

historical and contemporary forms of First Peoples resistance to colonization, including violent and non-violent resistance, revitalization movements and self-determination. It explores liberation theory and its roots in colonial oppression and analyses historical and contemporary resistance movements such as the confrontation at Kanehsatake (Oka) and Esgenoopeitij (Burnt Church) and the movement for decolonization through self-determination.

FPST 415 *Indigenous Identity and Nationalism* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course explores the political and ideological ramifications of the expression of indigenous identity. It focuses on the emergence of First Peoples nationalist movements, compares them with non-Aboriginal nationalisms, and examines the nature and conceptual foundations of the indigenous sense of nation. Attention is devoted to the political efficiency of indigenous nationalism in its interface with the Canadian and Quebec states. Case studies particularly emphasize Kanien'kehaka and Eeyou nationalisms.

FPST 490 *Aboriginal Community Economic Development I* (3 credits)

Prerequisite: Enrolment in the Major; 60 credits and permission of the School. This course assists participants in exploring specific issues related to Aboriginal economic development in particular settings (in reserve, urban, rural, and northern communities), as well as addressing challenges common to Aboriginal CED. It assists participants in exploring historical and contemporary relationships between Aboriginal communities and the predominant cultural and economic forces, and comparing traditional Aboriginal organizational and economic practices with the new approaches being proposed by CED.

FPST 491 *Aboriginal Community Economic Development II* (3 credits)

Prerequisite: FPST 490. This course uses a case study approach to evaluate one or more economic development strategies applied within an Aboriginal community. An historical overview of this experience outlines the cultural and political context which has shaped these strategies as well as their results. CED approaches are examined in the context of this individual experience. This course may include on-site visits and guest lecturers.

FPST 498 *Advanced Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.550 SCIENCE COLLEGE

Principal

MICHAEL von GRUNAU, *Professor, Psychology*

Fellows

GRANT BROWN, *Associate Professor, Biology*

JOHN A. CAPOBIANCO, *Professor, Chemistry and Biochemistry*

LOUIS CUCCIA, *Associate Professor, Chemistry and Biochemistry*

ROBERTO DE ALMEIDO, *Associate Professor, Psychology*

EMMA DESPLAND, *Associate Professor, Biology*

YVES GELINAS, *Associate Professor, Chemistry and Biochemistry*

JAMES GRANT, *Professor and Chair, Biology*

PAUL JOYCE, *Associate Professor, Chemistry and Biochemistry*

CALVIN S. KALMAN, *Professor, Physics*

LASZLO KALMAN, *Associate Professor, Physics; Chemistry and Biochemistry*

HERSHY KISILEVSKY, *Professor, Mathematics and Statistics*

JOHN McKAY, *Professor, Computer Science*

DAVID MUMBY, *Associate Professor, Psychology*

ELAINE B. NEWMAN, *Professor, Biology (Founding Principal)*

JUDITH PATTERSON, *Associate Professor, Geography, Planning and Environment*

PETER PAWELEK, *Assistant Professor, Chemistry and Biochemistry*

VESSELIN PETKOV, *Assistant Professor, Science College; Philosophy*

NATALIE PHILLIPS, *Associate Professor, Psychology*

DIANE POULIN-DUBOIS, *Professor and Associate Director, CRDH Psychology*

RAMESH C. SHARMA, *Associate Professor, Physics*

REGINALD STORMS, *Professor, Biology*

VLADIMIR TITORENKO, *Associate Professor, Biology*

LUC VARIN, *Associate Professor, Biology*

CHRISTOPHER WILDS, *Assistant Professor and Canada Research Chair, Chemistry and Biochemistry*

VALTER ZAZUBOVITS, *Associate Professor, Physics; Chemistry and Biochemistry*

Adjunct Fellows

MICHEL COTÉ, *Physics, University of Montreal*

MAJID FOTUHI, *Chief Resident, Medicine, Johns Hopkins Hospital*

LUCIEN-ALAIN GIRALDEAU, *Biology, UQAM*

MICHAEL GREENWOOD, *Medicine, McGill University*

Location

Loyola Campus

Richard J. Renaud Science Complex, Room: SP 363.00 – 363.09

514-848-2424 ext. 2595

Objectives

The aim of the Science College is to prepare students enrolled in one of Concordia's science programs for a life of research, teaching, or some similarly demanding intellectual pursuit in a profession. The academic program of the College complements the regular undergraduate curriculum and includes cross-disciplinary courses and student participation in laboratory research activities from the first year on. The collegial atmosphere fosters interaction among students and between students and faculty.

In Science College, students will gain an understanding of several areas of science, while specializing in whichever one they choose. Curricular structures frequently restrict students to a single discipline. To help counteract excessive specialization, the Science College has designed a series of courses to show what practising physicists think about physics; what mathematicians do when they are thinking mathematics: — not “an introduction to”, but “the state of the art”.

The College provides an opportunity for students to become acquainted with science as practised and understood by scientists today. Its curriculum is planned to fulfil the primary goals of the College — to provide an opportunity for experience in a research environment, for thinking about the nature of science, and for becoming aware of the style and content of the various scientific disciplines.

In Science College, students have the opportunity to work individually with active research scientists. This is done through a program of directed or independent study in each undergraduate year which enables them to undertake or participate in projects of discovery in a variety of different areas of scientific endeavour.

Students of the College will also be provided with an opportunity to consider the nature of science. The College offers courses in the intellectual and social context of science. Designed specifically for College students, these courses raise questions of broad interest to scientists and presume an understanding of the subject matter of science itself.

Students will also be given the opportunity to consider the social and cultural framework of their science studies through a basic course in some aspect of humanistic studies. Finally, students will be encouraged to appreciate the link between clarity of thought and clarity of expression, through the availability of tutorial assistance in the development of writing skills.

Facilities

The College has study and lounge areas, computer facilities, a small library, and a few periodicals of general interest. The College offers students the opportunity and facilities to discuss matters of interest among themselves and with their professors. Science College also offers a number of courses and invites scientists to visit the University to meet College students.

Requirements for Admission to Science College

The program of Science College is academically demanding, involving concentration in one discipline and a critical investigation of other aspects of science. The College is committed to serious academic work and high standards, and seeks to attract talented and enthusiastic students who are willing to work hard in a search for a deeper understanding of their subject.

Students must enrol in a science program that leads to a BSc or BA (cognitive science) degree in order to be part of Science College. Students registered for a BA in Journalism are also eligible, as are students registered in the General Science Option of Computer Science.

In addition to the normal requirements for admission to the University's various programs, applicants are expected to have a good academic average. They will be considered on the basis of their academic record, and a personal interview. Preference will be given to students who show a disposition and an aptitude to profit from the unique features of the sort of fundamental scientific education which the College offers. Applicants are encouraged to provide evidence of the range of their intellectual interests and of any creative activity in which they may have been involved.

Students must be prepared to attend courses at times outside the normal University schedule. The College is open to full-time students only.

Science College and Journalism

A limited number of students who have been admitted to the Major in Journalism program may be allowed to register in the Science College, with a view to combining a basic understanding of science with a training in journalism.

Performance Requirement

Students in the College must obtain a minimum grade of "B-" in all courses offered by the College.

Further Information

Further information on the courses and activities of the Science College may be obtained either by writing or by telephoning the College office. Personal interviews with a fellow of the Science College may be arranged through the Science College office.

Science College Curriculum

The College offers a Minor in Multidisciplinary Studies in Science, consisting of a core of courses which is required of all students. This core consists of 30 of the 90 credits normally required for a BSc degree. These courses have been developed specifically for the College with the intention of providing a unique, integrated program of education in science.

Program

In addition to completing the core curriculum, students are responsible for satisfying their particular degree requirements by completing a departmental Honours, Specialization, or Major program leading to a BSc or BA (cognitive science).

The superscript indicates credit value.

24-30 Minor in Multidisciplinary Studies in Science

- 6 SCOL 270⁶
- 6 SCOL 290³, 390³

- 6 SCOL 490^{6*}
- 12 Chosen from SCOL 350^{3***},
SCOL 360^{3***}; LBCL 291^{6**}, 292^{6**}

**After consultation with the College, this course may be replaced by BIOL 490, CHEM 450, or PSYC 430.*

***Only one of these courses may be taken.*

****This course may be repeated twice for credit in this program, provided the subject matter is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.*

NOTE: Students who have taken BIOL 490, CHEM 450, or PSYC 430 are not required to take SCOL 490.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

SCOL 270 *Historical, Philosophical, and Social Aspects of Science*
(6 credits)

Prerequisite: Membership in the Science College, or permission of the College. This course discusses the intellectual framework of science and the relationships between science and society, and the political and philosophical questions inherent in the scientific process. Students are expected to understand the scientific issues at the level at which they were originally addressed.

SCOL 290 *Directed and Independent Study I* (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. The student works under the supervision of a member of the Faculty on either a practical laboratory project or a literature study. A formal, written report is required.

SCOL 350 *Current Issues in Physical, Biological and Mathematical Sciences* (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. This course is designed to help students understand the "state of the art" in fields of science in which they are not specializing. It discusses problems under current study, and attempts to identify possible future directions of research. The approach is qualitative. Detailed technical knowledge is not prerequisite.

Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: This course may be repeated twice for credit in this program, provided the subject matter is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.

NOTE: Students who have received credit for SCOL 351, 352, or 353 may not take this course for credit if the subject matter is the same.

SCOL 360 *Topics for Multidisciplinary Study* (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. The purpose of this course is to introduce students to problems and areas of study which transcend traditional disciplinary barriers. A chosen area of investigation is treated from the viewpoint of various disciplines. Lectures from different areas may be used for this purpose. The aim is to show the contributions made by each field to the understanding of the problem, and how they complement each other.

Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: This course may be repeated twice for credit in this program, provided the subject matter

is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.

NOTE: Students who have received credit for this topic under an SCOL 398 number may not take this course for credit.

SCOL 370 *Selected Readings in Multidisciplinary Study*
(3 credits)

Prerequisite: Membership in the Science College and/or permission of the College. The purpose of this course is to introduce students to problems and areas of study which transcend traditional disciplinary barriers. A chosen area of investigation is treated from the viewpoint of various disciplines. Readings from different areas may be used for this purpose under guidance of one or more fellows of the College. The aim is to show the contributions made by each field to the understanding of the problem, and how they complement each other.

NOTE: Students who have received credit for this topic under an SCOL 398 number may not take this course for credit.

SCOL 390 *Directed and Independent Study II* (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. A student who has completed SCOL 290 registers for SCOL 390. Students are encouraged to work in a field different from that of their SCOL 290 project.

SCOL 398 *Selected Topics in Multidisciplinary Studies*
(3 credits)

Prerequisite: Membership in the Science College and/or permission of the College. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCOL 490 *Directed and Independent Study III* (6 credits)

Prerequisite: Membership in the Science College, or permission of the College. A student who has completed SCOL 390 registers for SCOL 490. Students are encouraged to work in a field different from that of their SCOL 290 and 390 projects. Students complete a research project approved in advance by the College, under the supervision of a fellow of the College and/or a faculty member in a scientific discipline at Concordia or elsewhere.

NOTE: After consultation with the Science College, students may register in BIOL 490, CHEM 450, or PSYC 430 and upon successful completion be exempted from SCOL 490. Students may also choose to do the Honours project and in addition a SCOL 490 project.

31.560

SIMONE DE BEAUVOIR INSTITUTE AND WOMEN'S STUDIES

Acting Principal
VIVIANE NAMASTE

Associate Professor
CHANTAL MAILLÉ

Assistant Professor
GADA MAHROUSE

Fellows
SIMA APRAHAMIAN
YASMIN JIWANI
LINDA KAY
ANNA KRUYNSKI
LORNA ROTH
ROSEMARIE SCHADE
LESLIE SHADE
ERIC SHRAGGE
SANDRA WEBER

Post-Doctoral Fellow
MARC LAFRANCE

Lifetime Fellows
ARPI HAMALIAN
ELIZABETH HENRIK
SUSAN HOECKER-DRYSDALE
MAIR E. VERTHUY
KATHERINE WATERS

Research Associates
CHRISTINA ADAMI
THERESA ARBOUR SAWYER
ADEELA ARSHAD-AYAZ
RACHEL BERGER
NICOLE BLANCHETTE
DELORES CHEW
KARIN DOERR
DOROTHY GELLER
DIANNE GEORGE
DANA HEARNE
DENISE HUGHES-TAFEN
AMINA JAMAL
CAROLINE KELLEY
ABBY LIPPMAN
NILIMA MANDAL-GIRI
BARBARA MEADOWCROFT
DENISE NADEAU
CHENGIAH RAGAVEN
SHIVA SADHEGI
ARN SAUER
RUMANAH NAHID SUBHAN
RASA ZIEMYTE

Location

Sir George Williams Campus
Annex MU, Room: 202
514-848-2424 ext. 2370

Objectives

The Institute strives to stimulate the investigation and understanding of the role of women in society and to encourage women to develop their creative potential. In research and teaching, special attention is given to gender, race, class, and sexual orientation.

The Institute has several objectives: to investigate the history, current situation, and changing needs of women; to generate support for research topics relevant to women; to encourage full recognition of women's contribution to human achievement; to ensure that women and gender issues are studied in a non-discriminatory manner; to strengthen women's rights and the conditions for exercising them; to ensure the equality of all individuals without distinction of race, sex, age, language, or religion.

Women's Studies encompass and modify all areas of knowledge. Through the introduction of new perspectives and new research, this field of study helps to correct and complete the traditional scholarly record. It is in essence interdisciplinary and multidisciplinary since the specificity of the condition of women embraces all existing disciplines. It thus questions the concept and structures of knowledge contained within the disciplinary boundaries and contributes to bringing about a reunification of the knowledge and scholarship that has become increasingly fragmented.

SIMONE DE BEAUVOIR INSTITUTE

Founded in 1978 to promote the understanding of the historical and contemporary situation of women in society, the Simone de Beauvoir Institute of Concordia University helps women to discover and develop their potential, both by its academic base in Women's Studies and by its co-curricular activities. We are honoured that Simone de Beauvoir authorized us to use her name, and expressed great interest in being informed of our activities.

All students registered in the Specialization, Major, Minor, or Certificate in Women's Studies are members of the Institute. Other undergraduate students are welcome to become members if they undertake to complete nine credits of WSDB courses.

The co-curricular life of the Institute is extremely important, and all members are expected to contribute to our activities. Exciting opportunities are available to organize workshops, colloquia, and debates on

subjects that interest the members, as well as to collaborate with women's organizations outside the University on research projects and other joint ventures.

Admission Requirements for the Simone de Beauvoir Institute

Students may apply simultaneously to Concordia University and the Simone de Beauvoir Institute by filling out and submitting the Concordia University Application for Admission with the box for "colleges" checked and "Simone de Beauvoir Institute" written in the space provided. Further information about the Institute can be obtained by calling or visiting its offices or website at <http://artsandsocscience1.concordia.ca/wsdb>.

Programs

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

Students should consult with the Women's Studies advisor prior to registering for Women's Studies courses.

60 BA Specialization in Women's Studies

Group I

- 9 WSDB 290³, 291³, 292³
- 6 WSDB 380³, 480³
- 12 WSDB 381³, 382³, 383³, 390³, 391³, 392³
- 12 WSDB 490³, 491³, 496⁶
- 3 WSDB at the 400 level

Group II

- 18 Chosen in consultation with the Women's Studies advisor from WSDB 275³, 298³, 335³, 365³, 375³, 384³, 398³, 498³; AHSC 312³; CLAS 261³; COMS 368³; EDUC 321³; ENGL 303⁶, 331³, 351³; FLIT 362³, 471³, 472³, 474³; HIST 329³, 331³; POLI 309³, 326³, 328³; PSYC 368³, 391³; and all Women and Religion courses; SOCI 272⁶, 276³, 374³; ANTH 308³; and from the Faculty of Fine Arts: FMST 329³, 409³; WFAR 320⁶

NOTE: Students are admitted based on a letter of intent to be evaluated by the Women's Studies Undergraduate Committee. Students are expected to maintain an overall W GPA of 3.0.

42 BA Major in Women's Studies

Group I

- 9 WSDB 290³, 291³, 292³
- 6 WSDB 380³, 480³
- 6 Chosen from WSDB 390³, 391³, 392³
- 3 Chosen from WSDB 490³, 491³

Group II

- 18 Chosen in consultation with the Women's Studies advisor from List A

LIST A

WSDB 275³, 298³, 335³, 365³, 375³, 381³, 382³, 383³, 384³, 398³, 498³; AHSC 312³; CLAS 261³; COMS 368³; EDUC 321³; ENGL 303⁶, 331³, 351³; FLIT 362³, 471³, 472³, 474³; HIST 329³, 331³; POLI 309³, 326³, 328³; PSYC 368³, 391³; RELI all courses under *Women and Religion*; SOCI 276³, 378³, 474³; ANTH 276³; FMST 329³, 409³; WFAR 320⁶

NOTE: Students should consult the appropriate Departments concerning possible prerequisites for the courses in List A.

Language/Langue

Les règlements actuels permettent à toute étudiante et tout étudiant d'écrire ses devoirs ou examens en anglais ou en français dans tous les cours offerts, à l'exception des cours de langue. La langue d'enseignement sera normalement l'anglais.

Non-francophone students may equally submit assignments in English in Français 451, 476, and 477, as long as they are taking the course for credit in Women's Studies or as an elective, and not as part of a program of the Département d'études françaises.

30 Minor in Women's Studies

Group I

- 9 WSDB 290³, 291³, 292³
- 6 WSDB 380³, 480³
- 6 Chosen from WSDB 390³, 391³, 392³
- 3 Chosen from WSDB 490³, 491³

Group II

- 6 Chosen in consultation with the Women's Studies advisor from List A

30 Certificate in Women's Studies

Group I

- 9 WSDB 290³, 291³, 292³
- 6 WSDB 380³, 480³
- 6 Chosen from WSDB 390³, 391³, 392³
- 3 Chosen from WSDB 490³, 491³

Group II

- 6 Chosen in consultation with the Women's Studies advisor from List A

Students may transfer into the Certificate program up to 12 credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are generally open only to students who have successfully completed at least 15 credits which include WSDB 290 and 291. Students who do not have these prerequisites may also register with permission of the Department.
- (2) 400-level courses are generally open only to students who have successfully completed at least 30 credits which include WSDB 290, 291, and 380. Students who do not have these prerequisites may also register with permission of the Department.

WSDB 275 *Women of Colour* (3 credits)

This course provides an overview of the experience of visible minority women in North America, exploring the lives and cultures of individuals who confront both racism and sexism, as well as the ways they create communities of support and resistance.

NOTE: Students who have received credit for this topic under a WSDB 298 number may not take this course for credit.

WSDB 290 *Introduction to Women's Studies I* (3 credits)

This course provides an introduction to the lives and conditions of women in historical contexts. It is suited both to those interested in women's issues in general and students enrolled in Women's Studies. Topics range from lesbianism, motherhood, violence, racism, and family to women's economic status, and women's resistance.

WSDB 291 *Introduction to Women's Studies II* (3 credits)

This course looks at the lives and conditions of women in recent times; it explores systems of domination and women's resistance to them. It investigates how women have empowered themselves within these systems and have struggled for, and achieved, change. Topics may include women's organizations, socialization, education, language, economic and political structures.

NOTE: Students who have received credit for WSDB 291 may not take this course for credit.

WSDB 292 *Feminisms and Research Methods* (3 credits)

Prerequisite: Enrolment in a Women's Studies program or permission of the Institute. This course exposes students to a variety of research practices such as: oral history, case studies, multi-media representation, survey/content analysis, library research, and field work. It encourages students to think critically, and to improve their ability to gather, analyse, and effectively present ideas and information.

WSDB 298 *Selected Topics in Women's Studies* (3 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

WSDB 335 *Gender and Nation: The Irish Experience* (3 credits)

This course looks at women in Irish politics, culture, and society from the late eighteenth century to the present, with particular focus on the twentieth century. It examines the nature of women's involvement in nationalist and feminist movements, their position in relation to the state, the Church (Catholic and Protestant), education, work, sexuality, and cultural production (literature, visual art, and film).

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 365 *Feminist Theory and Popular Culture* (3 credits)

This course examines how feminism has not only commented on the world of pop culture but has entered and altered it. Through a study of television, film, advertising, pop music, cyber culture, and kiddie culture, students look at the ways in which popular culture has impacted how women view themselves and how they are viewed.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 370 *Workshops in Special Areas of Women's Studies* (3 credits)

Prerequisite: WSDB 290; WSDB 291. The purpose of these workshops is to examine a number of topics and problems related to the field of Women's Studies. The issues considered may differ from year to year; several workshops are offered over one academic year and students are required to select two workshops of one and a half credits each or three workshops of one credit each from the package. The workshop format is designed to allow Women's Studies students to participate in learning opportunities with flexibility in scheduling as well as to benefit from the experience of experts who visit Montreal on a short term basis. Possible topics are women and biotechnology; education of immigrant women, women and continuing education; women and pressure groups.

WSDB 375 *Black Women's Culture* (3 credits)

This course surveys the historical and contemporary experience of Black women in North America

through the lenses of culture — the daily culture they live through family, community, work, health issues, belief systems, and power relations, as well as the culture they make through expressive forms like literature, music, theater, film, and dance.
NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 380 *Feminist Thought I* (3 credits)
Prerequisite: See N.B. number (1). This course seeks to deconstruct the ideological premises of knowledge-production and provides an overview of various modes of knowledge, theory, and activism among women in different cultural contexts. These types of knowledge range from storytelling to academic theorizing. The course provides key concepts and critical approaches for Feminist Thought II.
NOTE: Students who have received credit for WSDB 394 may not take this course for credit.

WSDB 381 *First Nations' Women* (3 credits)
Prerequisite: 18 credits, including WSDB 290, 291, and 292, and nine credits from other WSDB or elective courses. This course aims to acquaint students with North American First Nations, particularly the women's contemporary realities. Other pedagogical objectives are to facilitate an understanding of cultural perception; to develop a critical viewpoint of ethnocentrism in mainstream society; to introduce the current debate around minority representation, cultural appropriation, and post-colonial theory.
NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 382 *Science, Technology and Women's Lives* (3 credits)
Prerequisite: See N.B. number (1). This course explores both historical trends and contemporary concerns regarding women, science, and technology. It investigates: stereotypes of science and scientists; western science vs. native knowledge; science as a social activity and as a career choice for women; and the effects of science and technology on women's lives.
NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 383 *Lesbian Issues and Realities* (3 credits)
Prerequisite: 18 credits, including WSDB 290, 291, 292, and nine credits from other WSDB or elective courses. This course introduces students to the field of lesbian studies and examines lesbian existence within a historical as well as a contemporary context. A central theme of the course is diversity among lesbians, not only in terms of race, class, ability but also in terms of political consciousness.
NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 384 *Queer Feminism* (3 credits)
This course especially addresses lesbian and bisexual perspectives on perverse desire, its expression and its reflection in art, cinema, popular culture, poetry, fiction, and queer theory. It studies these through a critical examination of issues arising in the historical institutions of law, medicine, religion, psychoanalysis, philosophy, and biology, to representations of sexuality in popular culture, media, and local politics and grassroots practices, drawing upon examples committed to feminist politics of location.
NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 390 *Women and Peace* (3 credits)
Prerequisite: See N.B. number (1). This course covers a series of themes related to feminist peace politics such as violence, wars against women, militarism, roles played by women during wars, war mythologies, women in the military, the war industry and the new world order, feminist peace activism.

WSDB 391 *Health Issues: Feminist Perspectives* (3 credits)
Prerequisite: See N.B. number (1). This course examines women's health issues in both a historical and a contemporary light. Topics analysed range from the treatment of women within the health care system to the social constructs of illness and the diversity of healing practices.

WSDB 392 *Féminismes dans la francophonie* (3 crédits)
Préalable: 18 crédits, dont WSDB 290, 291, et 292, plus 9 autres crédits en WSDB ou cours électifs. À partir de textes théoriques et d'ouvrages traitant de la vie quotidienne, ce cours examine les similitudes, les analogies et les traits distinctifs des luttes des femmes durant les deux dernières décennies, ici et ailleurs dans la francophonie, notamment les luttes des Arabes, des Antillaises ou des femmes d'Afrique noire.

WSDB 398 *Selected Topics in Women's Studies* (3 credits)

WSDB 399 *Selected Topics in Women's Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

WSDB 480 *Feminist Thought II* (3 credits)
Prerequisite: See N.B. number (2). This course uses the critical approaches studied in Feminist Thought I to explore the changes that have taken place in women's expression and interpretation of modes of knowledge and theory. The course focuses on the relationship between oppressive systems and the ways different women's groups have resisted them.
NOTE: Students who have received credit for WSDB 394 may not take this course for credit.

WSDB 490 *Feminist Ethics* (3 credits)
Prerequisite: See N.B. number (2). This interdisciplinary seminar considers the effect of systems of gender, race, and class on women's place in society. It takes into account recent developments in feminist scholarship in the humanities and social sciences.

WSDB 491 *Feminist Perspectives on Culture* (3 credits)
Prerequisite: See N.B. number (2). This interdisciplinary seminar explores women's visions of the future and draws on historical and contemporary materials, both creative and scientific.

WSDB 496 *Directed Research* (6 credits)
Prerequisite: Enrolment in the Specialization in Women's Studies; 30 credits, including WSDB 290,

291, 292, 380, 480, and permission of instructor. Students work with an individual faculty member in a particular area of Women's Studies. Students are expected to produce a substantial research project.

WSDB 498 *Seminar in Women's Studies* (3 credits)

WSDB 499 *Seminar in Women's Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.



john molson school of business

61.10 JOHN MOLSON SCHOOL OF BUSINESS

61.20 ADMISSION REQUIREMENTS

61.21 UNDERGRADUATE DEGREE PROGRAMS

61.21.1 General Education Requirement

61.21.2 The Bachelor of/Baccalaureate
in Commerce

61.21.3 The Bachelor of/Baccalaureate
in Administration

61.22 THE CREDIT CORE

61.22.1 Academic Performance Regulations

61.22.2 Registration Regulations

61.30 GENERAL INFORMATION

61.35 JOHN MOLSON SCHOOL OF BUSINESS COURSES

61.40 ACCOUNTANCY

**61.50 DECISION SCIENCES AND
MANAGEMENT INFORMATION SYSTEMS**

61.60 ECONOMICS

61.70 FINANCE

61.80 INTERNATIONAL BUSINESS

61.90 MANAGEMENT

61.100 MARKETING

61.120 ADMINISTRATION

**61.140 PROGRAM OPTIONS FOR
NON-BUSINESS STUDENTS**

61.150 COMPUTER SCIENCE

61.160 SPECIAL CERTIFICATE PROGRAMS

61.170 SPECIAL PROGRAMS IN ACCOUNTANCY

On November 15, 2000, the Faculty of Commerce and Administration at Concordia University became the John Molson School of Business.

section 61



61.10

JOHN MOLSON SCHOOL OF BUSINESS

Faculty

Dean
SANJAY SHARMA

ALAN HOCHSTEIN, *Master's and Graduate
Diploma Programs*
LORNE SWITZER, *Research*

Associate Deans
GEORGE K. KANAAN, *Academic and Student
Affairs – Undergraduate Programs*

Location

Sir George Williams Campus
GM Building, Room: 403
514-848-2424 ext. 2779

Mission Statement

"The primary purpose of the John Molson School of Business is to graduate employable students who are responsible community citizens. We acknowledge the centrality of our teaching mission and strive for excellence and innovation in our graduate and undergraduate programs. We place strong emphasis on research and scholarship and aim to create an intellectual climate in which varied inquiry about the theory and practice of management can flourish.

As an urban business school we welcome our bilingual and multicultural constituency. We believe that an international faculty, diverse student body, strong links to the local business community along with academic relationships forged with international partners, provide a learning environment well suited to the demands of a globalizing and open economy.

We are recognized for a long tradition of offering accessible, flexible and relevant commerce and administration programs to the Montreal community. The fundamental purpose of all our intellectual, scholarly and teaching endeavour is to equip our students with a range of essential competencies and values which help them achieve personal goals and make useful contribution to the communities in which they reside."

Approved by Faculty Council • March 1996

61.20 ADMISSION REQUIREMENTS

The general requirements for admission to Concordia University are listed in §13.

Cegep Entrance — the 90-credit program

The prerequisites for the 90-credit program are as follows:

Subject*:	Concordia Courses:
Calculus I	MATH 209
Linear Algebra	MATH 208
Micro, Macro Economics	ECON 201, 203
Computer Literacy	DESC 200

**NOTE: Equivalencies will be determined at the time of acceptance.*

Students with a DEC will complete the 90-credit program. Students who have a complete DEC but are lacking one or more of the prerequisite courses may take them within the 90-credit program as elective credits during the first year of the program.

Mature Entry — the 108-credit program

In addition to the 90-credit program, mature entry students will be required to complete the following 18 credits:

- 6 credits in MATH 208, 209
- 6 credits in ECON 201, 203
- 3 credits in DESC 200
- 3 additional elective* credits

**These elective credits must be selected from outside the offerings of the John Molson School of Business.*

Four-Year Program — the 120-credit program

In addition to the 90-credit program, students in the four-year program will be required to complete the following 30 credits:

- 6 credits in MATH 208, 209
- 6 credits in ECON 201, 203

- 3 credits DESC 200
- 3 credits ENGL 212
- 12 additional elective* credits

**These elective credits must be selected from outside the offerings of the John Molson School of Business.*

NOTE: Because of the extensive use of computers in various programs, students are advised to have access to a personal computer.

61.21 Undergraduate Degree Programs

The John Molson School of Business offers two distinct undergraduate programs. The Bachelor of/Baccalaureate in Commerce (BComm) is a structured program in which the student will select a Major from those offered by the School of Business. The Bachelor of/Baccalaureate in Administration (BAdmin) is a flexible program which permits the student to pursue interests outside the School of Business, and offers the possibility of complementing a fundamental grounding in Administration with Minor concentrations in an area of interest. Degree requirements listed below apply to all students entering the program on or after June 1, 2001.

61.21.1 General Education Requirement

The John Molson School of Business is committed to the concept of General Education. Students graduating from the Business programs will have acquired the benefits of a general education through the 12 elective non-Business credits they are required to complete.

61.21.2 The Bachelor of/ Baccalaureate in Commerce

The program provides the student with an education for business life. This is accomplished through an interdisciplinary curriculum that is intellectually challenging. The first year of the program provides knowledge of fundamental business concepts and operational skills that form the base for the core curriculum. The second year of the program builds on this foundation to provide a broad experience in all phases of business. The interdisciplinary nature of the program allows students to analyse, formulate, judge, and solve challenging business problems. The last year of the program provides students with an opportunity for in-depth study of a specific business discipline.

As part of the Bachelor of/Baccalaureate in Commerce program, students will select 12 credits of elective courses outside the offerings of the School. Those credits, which will meet the School's General Education Requirement, should be chosen in areas that complement the student's overall university education.

Degree Requirements:

- 42 credits from the core
- 12 elective credits outside the School of Business
- 24–27 credits to apply towards the Major
- 9–12 elective credits chosen by the student

NOTES:

1. All students are required to declare a Major.
2. There are no Double Majors or Double Minors in the John Molson School of Business. The School may impose quotas on some Majors.

61.21.3 The Bachelor of/ Baccalaureate in Administration

The aim of the BAdmin is to develop capable problem-solvers and decision-makers. The program provides students with a fundamental grounding in administration and offers them the opportunity to pursue a wide range of interest amongst the various courses offered by the University.

Degree Requirements:

- 42 credits from the core
- 18 credits from within the School of Business and/or its disciplines
- 30 elective credits chosen by the student, but outside the School of Business, 15 of these must be beyond the introductory level.

NOTE: For the BComm and BAdmin programs, a maximum of nine credits in ESL courses may count towards the degree requirements, provided that three of the nine credits relate to a course focused on oral communication. Additional credits in ESL courses will be considered as credits completed above and beyond the degree requirements.

61.22 The Credit Core

The John Molson School of Business has revised its core effective September 1996. Students accepted into the John Molson School of Business prior to these changes must adhere to the

Undergraduate Calendar of the year of their acceptance into the program. Students who wish to discuss any adjustments to their program based on the new changes, may consult an academic advisor.

NOTE: Students are responsible for following the correct sequence of courses required for the completion of a particular program.

The required 42-credit core is identical for both programs and comprises the following courses:

1st Year

Semester 1

COMM 210 Contemporary Business Thinking

COMM 212 Business Communication

COMM 215 Business Statistics

COMM 217 Financial Accounting

Semester 2

COMM 220 Analysis of Markets

COMM 222 Organizational Behaviour and Theory

COMM 224 Marketing Management

COMM 225 Production and Operations Management

2nd Year

Semester 1

COMM 301 Management Information Systems

COMM 305 Managerial Accounting

COMM 308 Introduction to Finance

Semester 2

COMM 315 Business Law and Ethics

COMM 320 Entrepreneurship

3rd Year

COMM 401 Strategy and Competition

JOHN MOLSON SCHOOL OF BUSINESS

Program	Major	Minor	Certificate
Accountancy	X		
Business Studies		X ¹	X ¹
Data Analysis		X	
Economics	X	X	
Electronic Business Systems		X	
Finance	X	X	
Financial Accountancy		X	
Human Resource Management	X	X	
International Business	X	X	
Management	X	X	
Management Information Systems	X	X	
Managerial Accountancy		X	
Marketing	X	X	
Supply Chain Operations Management	X	X	

Students will indicate their preferred field of concentration at the time of application for entry. It should be noted that students may change their Major and/or Minor after completion of their first year of study.

¹ This program is not open to students registered in a program leading to the undergraduate degree of Commerce or Administration.

Students may transfer into the Certificate program up to 12 credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

61.22.1 Academic Performance Regulations

NOTE: The GPA regulations apply to all students, including those with Visiting status, registered in programs offered by the John Molson School of Business. This also includes the Minor in Business Studies and Certificate programs.

The objectives of these regulations are:

- to ensure that the School of Business can certify that all of its graduates are qualified to enter their profession;
- to ensure that students can, with the assistance or intervention of the School of Business, assess themselves objectively, and plan programs of study designed to meet their individual needs.

Annual Weighted Grade Point Average (WGPA)*

Requirements and Consequences

*See §16.3.11, II for definition of Annual WGPA.

Acceptable standing requires that a student obtain an Annual WGPA of at least 2.00.

NOTE: Although a "C-" grade (1.70 grade points) is designated as Satisfactory in §16.3.3, a WGPA of 2.00 is required for acceptable standing.

Students in acceptable standing must repeat all courses in which failing grades were obtained provided that these courses are required for their program.

Conditional standing results when a student obtains an Annual WGPA between 1.50 and 2.00. Students in conditional standing may not write supplemental examinations but may proceed subject to the following conditions:

- a) they must receive academic counselling from the appropriate member of the Dean's Office;
- b) they must successfully repeat all courses in which failing grades were obtained provided that these courses are required for their program, or replace them by alternatives approved by the Dean's Office;
- c) in no case will the number of credits exceed 15 per term for full-time students and six per term for part-time students;
- d) they must obtain acceptable standing at the time of their next assessment. If not, they are considered to be in failed standing.

Failed standing results when a student obtains an Annual WGPA of less than 1.50, or fails to achieve acceptable standing after being on conditional standing at the last assessment.

- Failed students are subject to the following regulations:
 1. They may not write supplemental examinations.
 2. They are dismissed from their program for a minimum period of one year.
- Students who are in failed standing for a second time are dismissed from the University for a longer period of time.
- In subsequent years, should failed students wish to return to university studies, they must contact the Office of the Associate Dean, Academic and Student Affairs, for information concerning conditions and procedures for seeking readmission.
- Readmission is not automatic and is dependent upon an assessment of the applicant's prospects for successful completion of the program. If readmitted, students will be placed on academic probation and restricted to a maximum of six credits per term. They must achieve acceptable standing at the time of their next assessment. Other conditions will be determined at the time of readmission.
- Decisions of the relevant authority in the Faculty to which application is made are final.

Graduation Requirements

Students must satisfy all course requirements and be in acceptable standing.

The standings of potential graduates who have attempted less than 12 credits since their last assessment are determined after adding the grade points obtained for these credits to those included in the computation of the GPA of the last assessment period.

Students who fail to meet acceptable standing but meet conditional standing will have the following options:

- a) register for 12 credits and meet the criteria for acceptable standing;
- b) register for fewer than 12 credits. In this case, standing will be determined after adding the grade points obtained for these credits to those included in the computation of the GPA of the last assessment period.

NOTE: Dean's Office is to be understood as being the appropriate member of the Dean's Office, normally the Associate Dean, Academic and Student Affairs, or delegate.

61.22.2 Registration Regulations

1. Students in the John Molson School of Business who have a lapse in their program of study for six consecutive terms or more will not be allowed to continue in their program before meeting with an academic advisor.
2. Students are allowed to register in a maximum of 12 credits during the Summer Session (including a maximum of six credits in any term within that session), except for students following the co-operative format of the program.

61.30 GENERAL INFORMATION

Failures/Prerequisites

Students are cautioned that if they fail a course that is a prerequisite for a subsequent course, they should repeat and pass that failed course before registering in the subsequent course. For example, a student who fails COMM 217 in the Fall Term, and has registered in COMM 305 in the subsequent Winter Term, must drop COMM 305 and repeat COMM 217 in the Winter Term before registering in COMM 305 again.

Students who are not able to register in the failed course(s) should contact the undergraduate programs' office during the course-change period at the beginning of each term.

Students who are registered for a course in which they do not have the appropriate prerequisite must adjust their registration accordingly. The Office of the Associate Dean reserves the right to deregister those students who do not adhere to academic regulations.

NOTE: THERE ARE NO SUPPLEMENTAL EXAMINATIONS IN THE JOHN MOLSON SCHOOL OF BUSINESS.

Proficiency in Canada's Official Languages

The business community and governments have a preference for university graduates who are functional in both the English and French languages. All students are therefore advised to take advantage of the opportunities available to them at this University to ensure that they have good command of these two languages upon graduation.

61.35 JOHN MOLSON SCHOOL OF BUSINESS COURSES

The following core courses provide fundamental knowledge of topics of interest to all students in the JMSB programs:

Courses

COMM 210 *Contemporary Business Thinking* (3 credits)

Prerequisite: COMM 212 previously or concurrently; ECON 201 or 203 or equivalent previously or concurrently. This course exposes students to an in-depth reading of several contemporary business books. It aims to incite students to develop a critical perspective on business literature. Students are also encouraged to explore popular and influential business writing; expose and evaluate the central ideas for scope, relevance, and managerial utility.

NOTE: It is recommended that part-time students complete this course, along with COMM 212, as early in their program as possible.

COMM 212 *Business Communication* (3 credits)

Prerequisite: INTE 290 or COMP 201 previously or concurrently. This course focuses on the principles and techniques of clear, concise, and effective, written and oral communication, especially as they apply to business. The formal, grammatical, and stylistic elements of written and oral business communication are emphasized. In addition, students are instructed in and experience the use of audiovisual means of communication.

NOTE: It is recommended that part-time students complete this course, along with COMM 210, as early in their program as possible.

COMM 215 *Business Statistics* (3 credits)

Prerequisite: INTE 290 or COMP 201 previously or concurrently; MATH 208 or equivalent, MATH 209 or equivalent. This course introduces the fundamentals of statistics as applied to the various areas of business and administration. Topics covered include techniques of descriptive statistics, basic theory of probability and probability distributions, estimation and hypotheses testing, chi-square tests in contingency table analysis and for goodness-of-fit, and simple linear regression and correlation.

COMM 217 *Financial Accounting* (3 credits)

Prerequisite: COMM 210 previously or concurrently. This course examines the theory and practice involved in measuring, reporting, and analysing an organisation's financial information. Concepts underlying financial statements are discussed, with an emphasis on generally accepted accounting principles. Disclosures/requirements concerning financial statements as well as information needs of decision-makers are introduced.

COMM 220 *Analysis of Markets* (3 credits)

Prerequisite: COMM 210, 215; ECON 201 or equivalent; ECON 203 or equivalent previously or concurrently. This course provides a general perspective on the history, operation and relationships between Canadian and international product, labour and financial markets. Specifically, students will be introduced to issues of fundamental importance to today's managers and entrepreneurs such as changes in structure and competitiveness in these markets in response to government policies, the determination and behaviour of interest rates, inflation, market integration, and the role and function of financial intermediation. It further provides students with the knowledge of the role and impact of regulation and other government interventions in these markets.

COMM 222 *Organizational Behaviour and Theory* (3 credits)

Prerequisite: COMM 210, 212. This course is designed to provide students with an opportunity to study individual behaviour in formal organizations. Through theoretical case and experiential approaches, the focus of instruction progressively moves through individual, group and organizational levels of analysis. Topics in the course include perception, learning, personality, motivation, leadership, group behaviour, and organizational goals and structure.

COMM 224 *Marketing Management* (3 credits)

Prerequisite: COMM 210, COMM 212 previously or concurrently. This course is an introduction to the managerial concepts and practices of marketing from the perspective of an organization and its products and services. The process of developing a marketing strategy and all of the components thereof is examined along with their interrelationships. Readings and cases are used to help students apply these concepts to realistic marketing problems in a host of business settings, including small business and international environments.

NOTE: Students who have received credit for MARK 201 may not take this course for credit.

COMM 225 *Production and Operations Management* (3 credits)

Prerequisite: COMM 210, 212, 215. This course is an introduction to contemporary operational issues and techniques in the manufacturing and service sectors. Among the topics covered are: operations strategy, forecasting, materials'

management, total quality management, time-based competition, and minimal manufacturing. Mathematical modelling in resource allocation is also introduced. Cases and computer-aided quantitative tools for decision-making are used throughout the course with an emphasis on the interactions between production/operations management and other business disciplines.

COMM 297 *Airport Management and Operations* (3 credits)

Prerequisite: COMM 222; enrolment in the Certificate in Management of Aviation Security. The overall course focus is the management of airports in their contemporary business environment. The material covered aims at providing a comprehensive understanding of key airport functions pertaining to commercial and technical activities. These functions are also examined from a customer service perspective. Specific attention is given to the planning and development of the airport system as well as to the optimization of airport logistics under normal and emergency operational conditions. Policy issues related to airside and landside service provision at airports are addressed. Issues relating to physical environmental impact are covered. The management of the interface with airport users such as airlines, corporate fleet, and general aviation operators as well as other stakeholders is discussed. Case studies drawn from contemporary real-life situations are used throughout the course.

COMM 298 *Strategic Aviation Management* (3 credits)

Prerequisite: COMM 297. This course develops a general management perspective to assist in the integration of materials covered in other parts of the program. Attention is focused upon developing skills in competitive and industry analysis, and on issues relating to strategy formation within regulated industries. Corporate governance and organization structure models of particular relevance to the aviation industry are examined as well as the process for managing large-scale organizational change. Although some lectures are given, concept development takes place through case discussions, readings, and presentations.

COMM 299 *Special Topics in Business* (3 credits)

This course enables students to focus on a specific topic in business that is of interest to all students.

COMM 301 *Management Information Systems* (3 credits)

Prerequisite: COMM 210. The objective of this course is to provide students with an understanding of the role of computer-based information systems in business organizations and the analytical skills required to work with management information systems. This course will also help to equip students with the ability to apply information technologies to a variety of business problems.

COMM 305 *Managerial Accounting* (3 credits)

Prerequisite: COMM 217. This course covers the development of accounting information to assist management in carrying out its functions effectively and efficiently. Concepts and techniques for planning, performance evaluation, control, and decision-making are introduced. New developments are addressed with a focus on contemporary business issues and real-world applicability of management accounting concepts and techniques.

COMM 308 *Introduction to Finance* (3 credits)

Prerequisite: COMM 217; COMM 220 previously or concurrently. This course provides a general understanding of the fundamental concepts of finance theory as they apply to the firm's long-run and short-run financing, and investment decisions. Building on the objective of firm value maximization, students will become familiar with the conceptual issues underlying risk and return relationships and their measurements, as well as the valuation of financial securities. They will also learn the concept of cost of capital, its measurement, and the techniques of capital budgeting as practised by today's managers. Students will be introduced to the basic issues surrounding the firm's short-term and long-term funding decisions and its ability to pay dividends.

COMM 315 *Business Law and Ethics* (3 credits)

Prerequisite: COMM 308. This course will allow students to develop a degree of familiarity with the important ethical and legal aspects of business and to become more aware of and comfortable with resolving ethical and legal components of their decision-making and with distinguishing right from wrong business behaviour.

COMM 320 *Entrepreneurship* (3 credits)

Prerequisite: COMM 222, 224, 305, 308. This course emphasizes the entrepreneurial aspects of management that are required to create, develop, and sustain either a new business venture or a major project/initiative within an existing organization. The integrative nature of the course will require an understanding of each functional area of business. Students will have the opportunity to demonstrate the teamwork, leadership, communication, and the other skills stressed throughout the program.

NOTE: Students who have received credit for COMM 410 may not take this course for credit.

COMM 401 *Strategy and Competition* (3 credits)

Prerequisite: 45 business credits including COMM 225 and 301; COMM 315 and 320 previously or concurrently. This capstone course requires graduating students to demonstrate their ability to integrate the knowledge and skills they have acquired during their Commerce program. This course introduces the concepts of strategic

management and competitive analysis. Emphasis is given to integrating concepts and ideas from the major functional areas such as marketing and finance to give a global perspective on decision-making and directing modern business enterprises. Lecture topics and case studies are selected to portray the nature of the strategic process and the dynamics of competition in a variety of contexts. Attention is also given to the issues of social responsibility, ethics, and personal values. In this context, we also examine the connection between organizational strategy

and the physical environment. Finally, cases and assignments which require an analysis of organizational improvement strategies and new organizational structures are selected.

NOTE: Students who have received credit for COMM 310 may not take this course for credit.

COMM 499 Seminar Course (3 credits)

Prerequisite: To be determined each academic term. This course enables students, on an individual basis, to further focus on a specialized topic within their discipline.

61.40 ACCOUNTANCY

<i>Faculty</i>	<p><i>Associate Professor and Chair of the Department</i> DOMINIC PELTIER-RIVEST</p> <p><i>Professors</i> MANMOHAN RAI KAPOOR JEONG-BON KIM MICHEL MAGNAN</p> <p><i>Associate Professors</i> IBRAHIM M. ALY EMILIO BOULIANNE CHARLES DRAIMIN KELLY GHEYARA MAJIDUL ISLAM GEORGE K. KANAAN JUAN J. SEGOVIA</p>	<p><i>Assistant Professors</i> CHARLES H. CHO CLAUDINE MANGEN SAMEER MUSTAFA BYRON Y. SONG LIANDONG ZHANG</p> <p><i>Senior Lecturers</i> PATRICK DELANEY GAIL FAYERMAN SANDRA M. ROBINSON WENDY NADINE ROSCOE</p> <p><i>Lecturers</i> SOPHIE AUDOUSSET-COULIER TREVOR HAGYARD TARA RAMSARAN</p>
<i>Location</i>	<p><i>Sir George Williams Campus</i> GM Building, Room: 600-13 514-848-2424 ext. 2759</p>	
<i>Department Objectives</i>	<p>The Department of Accountancy is dedicated to providing leadership in accounting education through a strong commitment to excellence in teaching and leadership in the discovery and dissemination of accounting knowledge. It acts as a bridge between the University and business, government, and professional accounting as they relate to various facets of accountancy at the undergraduate and graduate levels.</p> <p>The Department continuously strives to provide leadership and scholarship that are recognized provincially, nationally, and internationally by offering unique, creative, innovative, and "lifetime-learning" opportunities. The Department is responsive to its diverse constituencies and both nourishes and preserves an equitable, just, and non-discriminatory environment.</p>	
<i>Programs</i>	<p>27 Major in Accountancy 15 ACCO 310, 320, 330, 340, 400 12 additional credits offered by the Department</p> <p>12 Minor in Financial Accountancy 6 ACCO 310, 320 6 additional credits offered by the Department</p>	<p>12 Minor in Managerial Accountancy 6 ACCO 330, 430 6 additional credits offered by the Department</p>
<i>Accountancy Co-operative Program</i>	<p><i>Director</i> SANDRA M. ROBINSON, <i>Senior Lecturer</i> 514-848-2424 ext. 2748</p> <p>The Accountancy Co-operative program is offered to students who are enrolled in the BComm program and are majoring in Accountancy.</p> <p>The academic content of the co-op program is identical to that of the regular program, but three work terms are interspersed with six study terms.</p> <p>Students are supervised individually and must meet the requirements specified by the John Molson School of Business and the Institute for Co-operative Education in order to continue their studies in the co-op format.</p> <p>Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Accountancy Co-op Academic Director and the co-op committee.</p> <p>Please refer to §24 of this Calendar for a full description of the co-operative format of the program.</p>	

ACCO 220 *Financial and Managerial Accounting* (3 credits)

This course provides an introduction to accounting principles underlying the preparation of financial reports with an emphasis on the relationship between accounting information and production decisions. It examines the relationship between costs, production volume, and profit, as well as the practical benefits of standard costs for planning and control purposes. The role of accounting information in various manufacturing decisions is also highlighted.

NOTE: This course would be useful to Engineering students.

NOTE: JMSB students may not take this course for credit.

NOTE: Students who have received credit for ACCO 230, 240 may not take this course for credit.

ACCO 230 *Introduction to Financial Accounting* (3 credits)

This course provides an introduction to accounting concepts underlying financial statements of organizations. It focuses on the analysis, measurement, and reporting of business transactions to users of financial statements. It also examines the uses and limitations of accounting information for investment and credit decisions.

NOTE: JMSB students may not take this course for credit.

NOTE: Students who receive a grade of "C" or better may be exempt from COMM 217.

NOTE: Students who have received credit for ACCO 220 may not take this course for credit.

ACCO 240 *Introduction to Managerial Accounting* (3 credits)

Prerequisite: ACCO 230. This course examines the role of accounting information for decision making, and focuses on concepts and techniques used in planning operations, controlling activities, and evaluating managerial performance. New developments are addressed with a focus on contemporary business issues and real-world applicability of management accounting concepts and techniques.

NOTE: JMSB students may not take this course for credit.

NOTE: Students who receive a passing grade may be exempt from COMM 305.

NOTE: Students who have received credit for ACCO 220 may not take this course for credit.

ACCO 310 *Intermediate Accounting I* (3 credits)

Prerequisite: COMM 305 previously or concurrently. This course extends the material covered in the first financial accounting course, integrating the previous work with more advanced accounting theory and application. Intensive study is made of the theory and practice of external financial reporting by business entities, focusing on concepts and procedures underlying the measurement of assets and the determination of income.

ACCO 320 *Intermediate Accounting II* (3 credits)

Prerequisite: ACCO 310. This course continues the intensive study of ACCO 310, with particular emphasis on accounting for liabilities, shareholders' equity, and other related topics such as earnings per share, pension accounting, and accounting for income taxes.

ACCO 330 *Cost and Management Accounting* (3 credits)

Prerequisite: COMM 305. This course provides an examination of the techniques, systems, and procedures applicable to the managerial use of accounting information for planning, decision-making, and control. Topics include cost accumulation and allocation, product and process costing, flexible budgeting and variance analysis, evaluation of managerial performance, and transfer pricing.

ACCO 340 *Income Taxation in Canada* (3 credits)

Prerequisite: COMM 217. This course examines the federal income tax structure, including the taxation of employment, business, property income, and capital gains of individuals and corporations.

ACCO 350 *Accounting Information Systems* (3 credits)

Prerequisite: COMM 301, 305; ACCO 310.

This course examines the role and function of computerized accounting information systems in recording, processing, and storing accounting data necessary for planning, decision-making, and control of organizations. Theory and practice are combined in a case-study approach which includes "hands-on" experience with computer software.

NOTE: This course would be useful for students in Management Information Systems.

ACCO 355 *Analysis of Financial Statements* (3 credits)

Prerequisite: COMM 305, 308. This course explores the usefulness and limitations of financial statements for investment and credit decisions. It focuses on the interpretation of the information contained in financial statements which reflect the economic characteristics of the firm and its strategic business decisions. Instruments and techniques for financial statement analysis are discussed and applied to case studies and actual companies.

NOTE: Students in the Accountancy Major may not take this course for credit.

NOTE: This course would be useful for students in Finance and Management.

ACCO 365 *U.S. Federal Taxation* (3 credits)

Prerequisite: COMM 217 or ACCO 230. This course familiarizes the student with individual and corporate taxation in the U.S. The use of professional judgment in the application of tax

planning recommendations is also addressed in this course.

NOTE: Students who have received credit for this topic under an ACCO 470 number may not take this course for credit.

ACCO 400 *Accounting Theory* (3 credits)

Prerequisite: ACCO 320. This course examines the theoretical foundations of the contemporary approach to financial reporting, and the political and pragmatic considerations in the development of the conceptual framework underlying current accounting standards. Alternative theories of accounting are discussed and controversial areas are emphasized.

ACCO 410 *Governmental and Not-for-Profit Accounting* (3 credits)

Prerequisite: ACCO 320. This course introduces the theory and concepts that underlie the financial accounting, control, and reporting in not-for-profit organizations. General concepts and principles will be illustrated by comparing the practices of selected not-for-profit organizations, including local and federal governments and universities, with authoritative standards.

ACCO 420 *Advanced Financial Accounting* (3 credits)

Prerequisite: ACCO 320. This course examines the theory and practice of accounting for inter-corporate investments, business combinations, consolidation of financial statements, disaggregated information, and foreign currency transactions and operations. The course also examines accounting for partnerships.

ACCO 430 *Advanced Management Accounting* (3 credits)

Prerequisite: ACCO 330. This course expands on the problem-solving and decision-making tools covered in ACCO 330, and develops the student's ability to select and apply appropriate managerial accounting techniques to cases involving actual companies. This integrative course emphasizes the development of analytical skills needed to solve managerial problems, and covers recent developments in management accounting.

ACCO 440 *Advanced Taxation* (3 credits)

Prerequisite: ACCO 340. This course extends the coverage of ACCO 340 with an examination of specialized topics in personal and corporate income tax, including a detailed review of the taxation of corporations, tax planning, and the tax effects of various theoretical and practical business combinations.

ACCO 450 *Financial Auditing* (3 credits)

Prerequisite: ACCO 320 previously or concurrently. This course examines auditing concepts and methodology underlying audits of financial statements in terms of current practice and standards. It emphasizes the audit process and the role of the public accountant in expressing an opinion on the financial statements of an organization.

ACCO 460 *Operational Auditing* (3 credits)

Prerequisite: ACCO 320 previously or concurrently. This course examines the concepts and techniques of operational auditing. It emphasizes the audit of operations within the organization. Topics include comprehensive auditing, management control and systems development, computer-based auditing techniques, documentation and communication of audit findings.

ACCO 470 *Special Topics in Accounting* (3 credits)

Prerequisite: Written permission of the Department. This course is intended to complement accounting courses taken previously or concurrently at the senior level. It provides an opportunity for more intensive study in one or more specific topics in accounting.

NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

ACCO 480 *Financial Reporting and Analysis* (3 credits)

Prerequisite: ACCO 420. This course integrates the material covered in prior financial accounting courses. It emphasizes a user perspective of financial reporting, and focuses on the interpretation and analysis of information contained in financial statements and related disclosures. It provides an understanding of the usefulness and limitations of financial accounting information for investment and credit decisions. Models and techniques used in financial statement analysis are applied to case studies and actual companies.

ACCO 490 *Seminar in Taxation* (3 credits)

Prerequisite: ACCO 440. This course provides an in-depth coverage of taxation issues. It emphasizes the development of professional skills in the application of tax principles and concepts to the solution of complex tax problems facing individuals, trusts, and corporations.

61.50

DECISION SCIENCES AND MANAGEMENT INFORMATION SYSTEMS

Faculty

<i>Associate Professor and Chair of the Department</i>	JAMSHID ETEZADI-AMOLI
DENNIS KIRA	DOWAN KWON
	DANIELLE MORIN
<i>Professors</i>	MAHESH SHARMA
CLARENCE BAYNE	RUSTAM VAHIDOV
DALE DOREEN	
SURESH KUMAR GOYAL	<i>Assistant Professors</i>
GREGORY E. KERSTEN	SATYAVEER CHAUHAN
TAK KWAN MAK	CHITUANYA OKOLI
FASSIL NEBEBE	RAAFAT SAADE
AHMET SATIR	
JERRY TOMBERLIN	<i>Senior Lecturer</i>
	BORIS BARAN
<i>Associate Professors</i>	
EL SAYED ABOU-ZEID	<i>Lecturers</i>
BOUCHAIB BAHLI	TONY MANCINI
ANNE BEAUDRY	JAMSHID SABZE-GHABAIE
MERAL BÜYÜKKURT	
ANNE-MARIE CROTEAU	

Location

Sir George Williams Campus
GM Building, Room: 209-11
514-848-2424 ext. 2982

Department Objectives

The Department of Decision Sciences and Management Information Systems strives to equip its students with an integrated set of decision-making skills.

The Operations Management Major aims to develop expertise in all important aspects of managerial statistics, operations research, and production/operations management. It prepares graduates for careers that require skills in the collection and analysis of relevant data for decision-making with respect to the effective and efficient management of human resources, capital and time.

The Management Information Systems Major aims to develop expertise in all important aspects of the development, use, and management of information systems. It prepares graduates for careers in information systems analysis and design, database design and administration, as well as management of information technology.

The objective of the Minor in Electronic Business Systems is to augment students' education with the knowledge of the most current information technologies and electronic business topics. This exposes them to a broad and ever-changing mix of technologies, programming languages and tools, and teaches the skills and learning strategies necessary to work in e-business application development teams in both large and small organizations or consulting firms.

Programs

24 Major in Supply Chain Operations Management	12 Minor in Management Information Systems
24 DESC 361, 363, 372, 374, 376, 420, 492, 498	12 DESC 381, 382, 481, 495
12 Minor in Supply Chain Operations Management	12 Minor in Data Analysis
12 DESC 361, 363, 372, 374	12 DESC 375, 378, 445, 477
24 Major in Management Information Systems	12 Minor in Electronic Business Systems
18 DESC 381, 382, 391, 481, 487, 495	12 Chosen from DESC 387, 388, 389, 395, 489
6 Chosen from DESC 384, 385, 389, 488, 496	

Management Information Systems Co-operative Program	<p><i>Director</i> MERAL BÜYÜKKURT, Associate Professor 514-848-2424 ext. 2741</p> <p>The Management Information Systems Co-operative program is offered to students who are enrolled in the BComm program and are majoring in Management Information Systems. The academic content of the co-op program is identical to that of the regular program, but three work terms are interspersed with six study terms. Students are supervised individually and must meet the requirements specified by the John Molson School of Business and the Institute for Co-operative Education in order to continue their studies in the co-op format. Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Management Information Systems Co-op Academic Director and the co-op committee. Please refer to §24 of this Calendar for a full description of the co-operative format of the program.</p>
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Courses	<p>DESC 200 <i>Fundamentals of Information Technology</i> (3 credits) This course covers topics in information and communications technologies, including software, hardware, the Internet, and office productivity applications. Students will learn about the technologies and their use, as well as acquire hands-on experience in key software applications. <i>NOTE: Students who have received credit for INTE 290, or for this topic under a COMM 499 number or equivalent may not take this course for credit.</i></p>	<p>modelling is emphasized in dealing with facility location, capacity planning, demand and supply management, aggregate planning, scheduling, and inventory management decisions. Supplier evaluation/development practices and outsourcing are studied. Relevant enterprise resource planning modules with advanced planning and scheduling functionalities are introduced to illustrate the integration and coordination issues in supply chain planning and control.</p>
	<p>DESC 361 <i>Management Science Models for Operations Management</i> (3 credits) Prerequisite: COMM 225. This course deals with application of management science models to operations management problems in allocation of scarce human, physical, and financial resources. Among the topics covered are transportation, assignment and trans-shipment problems, integer linear programming, network models, multi-criteria decision problems, and waiting line models. The emphasis is on modelling issues and interpretation of solution through the use of optimization software packages. <i>NOTE A/See §200.2</i></p>	
	<p>DESC 363 <i>Product Design and Business Process Re-Engineering</i> (3 credits) Prerequisite: COMM 225 previously or concurrently. This course combines the product/service design issues and the continuous improvement efforts required throughout the life cycle of products and services. The topics covered in this context include essentials of creativity, organizational and operational issues in product/service design, mass customization, business process re-engineering, layout, and quality management. Cases and enterprise resource planning applications are studied to provide a unifying theme in terms of organizational change, supply chain re-engineering and integration aspects.</p>	
	<p>DESC 372 <i>Supply Chain Planning and Control</i> (3 credits) Prerequisite: DESC 361. Production/service planning and control issues in managing supply chains are covered in this course. Mathematical</p>	
	<p>DESC 374 <i>Supply Chain Logistics</i> (3 credits) Prerequisite: COMM 225. This course covers the tools and techniques associated with movement of materials throughout the supply chain. The topics covered include fundamentals of customer relationship management, distribution channels, purchasing, warehousing, transportation management, third part logistics, reverse logistics and issues in global logistics. Relevant enterprise resource planning modules are introduced and logistics games are played to illustrate the integration and coordination issues in supply chain logistics.</p>	
	<p>DESC 375 <i>Sample Design and Analysis</i> (3 credits) Prerequisite: COMM 215. This course deals with the uses of sample designs in collecting data for managerial decisions. Sample designs covered include simple random sampling, systematic sampling, stratified and cluster sampling. The course also focuses on the analysis of survey data using multivariate statistical techniques. Concepts in measurement scales, measurement models, reliability and item analysis as well as dimension reduction will also be introduced. <i>NOTE A/See §200.2</i></p>	
	<p>DESC 376 <i>Experimental Design and Analysis</i> (3 credits) Prerequisite: COMM 215. This course provides statistical fundamentals in designing experiments and analyzing outcomes. The topics covered include linear regression models, factorial designs, and response surface methodology. An experimental design and analysis software is used to demonstrate the application of techniques studied.</p>	

DESC 378 *Statistical Models for Data Analysis* (3 credits)

Prerequisite: COMM 215. This course introduces and examines the role of both classical and modern statistical methods in improving business processes. The methodologies selected for discussion represent those that are most extensively used in modern business research and analysis. The topics include modern statistical thinking, linear regression analysis, analysis of variance and other statistical techniques such as logistic regression, introduction to discriminant analysis, cluster analysis and their applications in mining large corporate data. Although the emphasis of the course is on real-life data analysis using statistical software packages, students will also obtain a good understanding of the relevant theory. *NOTE A/See §200.2*

DESC 381 *Introduction to Business Computer Programming* (3 credits)

Prerequisite: COMM 301. The objective of this course is to provide students with the skills needed to develop computer-based applications. **To this end, students will first learn fundamental software development techniques that will enable them to solve business information-processing problems, using both procedural and non-procedural approaches. They will then apply these concepts and techniques by developing business applications in a contemporary programming language such as Visual Basic.** *NOTE A/See §200.2*

DESC 382 *Database Management* (3 credits)

Prerequisite: COMM 301. This course provides a comprehensive foundation for designing, building, and working with databases, enabling students to understand and use commercially available database products effectively. The course examines different models of representing data with emphasis on relational model. Topics include data modelling, database design, queries, transaction management, implementation issues, and an overview of distributed database management systems, data warehouses, databases in electronic commerce, and database administration. Where feasible, use is made of professional data management software for designing, building, and implementing relational databases. *NOTE A/See §200.2*

DESC 384 *Business Data Communications* (3 credits)

Prerequisite: COMM 301; DESC 391. This course will provide a comprehensive introduction to the principles and techniques of business data communications. The content is directed towards the business student who desires a technical overview of the concepts of data transmission and methodologies employed in designing and managing local area and regional communications networks.

DESC 385 *Decision Support Systems* (3 credits)

Prerequisite: COMM 301. New developments in information technology such as data bases, **fourth-generation languages, and artificial intelligence** have changed the nature of traditional business decision support systems (DSS). This course starts by examining the human decision-making process and categorizes decision tasks. It then evaluates the requirements for effective user-machine decision making. The impact of the new end-user computing tools is considered in relation to DSS design.

DESC 387 *E-Business Systems* (3 credits)

Prerequisite: COMM 301. This course covers the essentials of e-business systems and includes a managerial perspective of the related opportunities and limitations. E-business systems support the electronic process of information searching, buying and selling goods and services, communicating, and collaborating. These systems also include applications such as e-learning, e-government, and telemedicine. The course will be delivered using a case study approach coupled with the analysis of selected reading material.

NOTE: Students who have received credit for this topic under a DESC 490 number may not take this course for credit.

DESC 388 *Systems Analysis and Design for Electronic Business* (3 credits)

Prerequisite: COMM 301. This course focuses on giving non-MIS students the core set of skills that analysts need to have in order to develop information systems for e-business. Topics include systems planning, analysis, design, and data modelling for e-business applications. The dynamic aspects of system analysis and design (SAD) are captured in this course by having students focus on doing a major e-business term project. An integrated CASE (Computer-Aided Systems Engineering) tool is used.

NOTE: Students who have received credit for DESC 382 or 481 may not take this course for credit.

NOTE: MIS Majors or Minors may not take this course for credit.

DESC 389 *Information Systems Integration* (3 credits)

Prerequisite: COMM 225. Organizations have at their disposal a wide range of software applications that facilitate better decision-making within their organizational structure. With the new focus on process management, these varied, function-based, information systems can lead to **redundancy or conflict. This course responds to the demand for a rationalization of technological resources and a convergence of disciplines that result in information systems integration.** We examine the best strategies and processes for integrating applications and systems within the enterprise. Topics include analysis and design modelling for enterprise integration, survey and

analysis of current integration approaches, and implementation strategies for better systems integration. Technological solutions examined include enterprise resource planning (ERP), software, middleware applications, and the use of Web services.

NOTE: Students who have received credit for this topic under a DESC 490 number may not take this course for credit.

DESC 391 *Fundamentals of Object-Oriented Programming for Business* (3 credits)

Prerequisite: DESC 381. This course introduces students to the object-oriented programming approach using a contemporary language and integrated development environment. This course covers objects, classes, inheritance, and class hierarchies. Using appropriate business examples, this course enables students to solve business problems using the fundamentals of object-oriented programming.

DESC 395 *Internet Programming* (3 credits)

Prerequisite: COMM 301. This course covers state-of-the-art client-side and server-side programming using the scripting languages and environments for developing dynamic, data-driven Web applications. Topics include Web programming concepts such as arrays, frames, forms, cascading style sheets, document objects model, and cookies. Teaching methods used include lectures, exercises assigned to reinforce the theory, and a term project involving the programming of a database-driven Web application.

NOTE: Students who have received credit for DESC 488 or for this topic under a DESC 490 number may not take this course for credit.

DESC 420 *Technology Management* (3 credits)

Prerequisite: DESC 372 or DESC 374. This course covers strategic aspects and operational techniques in managing hard and soft technologies along the supply chain. Technological developments are reviewed to provide a discussion base for technological forecasting. Issues in technology acquisition are presented from strategic and operational perspectives. Flexibility in manufacturing and logistics are discussed in terms of organizational and technical requirements. Reliability and maintainability topics are covered to illustrate potential disruption points along the supply chain. Case studies and field trips are an integral part of the course in highlighting implementation issues in technology management.

DESC 445 *Statistical Software for Data Management and Analysis* (3 credits)

Prerequisite: COMM 215 or equivalent. This course presents the principles and techniques of widely used statistical software systems, such as SAS, for data management (information storage and retrieval), data modification, file handling, and statistical analysis and reporting. The course

covers special features such as graphics, macro languages, software and/or library interfacing and the basics of data mining. Classes are to be held in computer labs and half of the time is devoted to lab work.

NOTE: Students who have received credit for STAT 480 may not take this course for credit.

DESC 477 *Managerial Forecasting* (3 credits)

Prerequisite: DESC 378 or equivalent. Reliable managerial forecasts of business variables must often be obtained against a background of structural changes in markets. This course focuses on the theory and applications of the most widely used methods of forecasting including decomposition methods, exponential smoothing, and the Box-Jenkins (ARIMA Building) techniques for non-seasonal and seasonal modelling. Recent approaches in forecasting such as artificial neural networks will also be introduced. Business and economic databases will be analyzed using statistical software packages in both class and project assignments. *NOTE A/See \$200.2*

DESC 481 *Information Systems Analysis* (3 credits)

Prerequisite: COMM 301. This course covers the first phase of the systems development life cycle, which culminates in the systems proposal. Topics include the preliminary survey, analysis of existing systems and identification of deficiencies, the development of functional specifications, feasibility and cost/benefit analysis and development of a recommended course of action. In addition, various diagramming techniques are examined. *NOTE A/See \$200.2*

DESC 487 *Object-Oriented System Development* (3 credits)

Prerequisite: DESC 391. This course is an introduction to the concepts, techniques, and methodologies of the object-oriented (OO) approach to information system development. Fundamental concepts of objects models follow a study of various OO methods for system analysis and design. Finally, a comparative survey of several contemporary OO implementation technologies such as object languages, object databases, and distributed object architecture are presented. Students then use one of these methodologies to develop a small-scale business system.

DESC 488 *Object-Oriented System Implementation* (3 credits)

Prerequisite: DESC 487. This course extends the object-oriented (OO) System Development course (DESC 487) to provide students with the various aspects related to implementing OO systems. The course covers the entire implementation of a small software system. Emphasis is placed on the implementation aspects of the system. The code is developed and the coding infrastructure is elaborated, compiled, and tested. Design patterns are incorporated into the system and a final working software system is created.

DESC 489 *Electronic Business Implementation* (3 credits)

Prerequisite: DESC 387; DESC 395; DESC 388 (for non-MIS Majors) or DESC 382 and 481 (for MIS Majors). This course provides participants with the processes and techniques necessary to successfully and efficiently develop and implement e-business solutions. Topics include e-commerce architectures and implementation strategies; e-commerce systems components; system design; content creation and management; transaction processing; back office systems; cryptography and security; and payment systems. Teaching methods consist of a series of lectures, case discussion, and tutorials introducing several technologies for the development of Web-based systems. The major project involves the development of an e-commerce site or an Intranet system developed for a specific business customer.

NOTE: Students who have received credit for this topic under a DESC 490 number may not take this course for credit.

DESC 490 *Special Topics in Decision Sciences and Management Information Systems* (3 credits)

Prerequisite: Permission of the Department. This course allows for more intensive examination of one or more topics in production/operations management, operations research, business statistics or management information systems.

DESC 492 *Supply Chain Simulation* (3 credits)

Prerequisite: DESC 376; DESC 372 or 374 previously or concurrently. This course focuses on simulating various supply chain scenarios using supply chain simulation package(s). Modelling issues in simulation are covered. Experimental design and analysis techniques are used in designing scenarios and analysing the outcomes, which are also studied from a wider strategic business perspective.

NOTE A/See §200.2

DESC 495 *Information Systems Design and Implementation* (3 credits)

Prerequisite: DESC 381, 382, 481. The main objective of this course is to expose students to the concepts, tools, and techniques they need to transform the information system requirements, resulting from the system analysis phase, into system design specifications, and to transform

the information system design specifications, resulting from the system design phase, into a working system. Topics include data and process analysis and design to distribute data and activities into design units; development of database specifications, input/output design specifications, user interface specifications and structured program design specifications; system implementation activities; project repository. Besides the formal lectures, assigned exercises, workshop and in-class discussions, students will be asked to apply system design tools and techniques to a specific business application.

NOTE: Students who have received credit for DESC 482 or 484 may not take this course for credit.

DESC 496 *Management of Information Technology* (3 credits)

Prerequisite: DESC 481. This course focuses on the issues and management techniques involved in administering the activities of Information Technology (IT) resources in an organization. Issues include such things as management of IT professionals, development of project management systems, acquisition of hardware/software, organizational structure, planning processes and management control of IT resources. Although most of the course material applies to managing the operations function within the IT department, the emphasis is on the manager's role as designer, facilitator, and change agent in managing the development and implementation of computer-based information systems and in managing the evolving IT organization. A socio-technical perspective will be emphasized to ensure a balanced look at technical and people issues. Besides the formal lectures, assigned exercises, workshop and in-class discussions, students will be asked to apply their managerial and consulting skills to a specific business application.

NOTE A/See §200.2

DESC 498 *Supply Chain Project* (3 credits)

Prerequisite: DESC 372 or 374 previously or concurrently. This course involves a project carried out in a real-life setting. Guest speakers from industry are invited to present supply chain issues in practice. Various tools and techniques of supply chain operations management are used in identifying and analyzing supply chain problems. Improvements and solutions are designed along with appropriate performance metrics.

61.60

ECONOMICS

Location

Sir George Williams Campus
Hall Building, Room: H 1155
514-848-2424 ext. 3900

Programs

For departmental information please see §31.080.

24 Major in Economics

12 ECON 301, 302, 303, 304

12 ECON elective credits chosen at the
400 level

12 Minor in Economics

6 ECON 318, 319

6 ECON elective credits chosen at the
300 level

61.70 FINANCE

<p><i>Faculty</i></p>	<p>Associate Professor and Chair of the Department SANDRA BETTON</p> <p><i>Professors</i> ALAN HOCHSTEIN, Associate Dean, Master's and Diploma Programs LAWRENCE KRYZANOWSKI, Concordia University Research Chair in Finance STYLIANOS PERRAKIS LATHA SHANKER LORNE SWITZER, Associate Dean, Research, Van Berkow Chair in Small-Cap Equities, and Associate Director, Institute for Governance in Private and Public Organizations DOGAN TIRTIROGLU</p> <p><i>Associate Professors</i> ARSHAD AHMAD HARJEET BHABRA ABRAHAM BRODT, Director, Kenneth Woods Portfolio Management Program ARVIND JAIN</p> <p>GREGORY LYPNY IMANTS PAEGLIS IAN RAKITA, Director, Goodman Institute of Investment Management KHALED SOUFANI, Director, Desjardins Centre for Innovation in Business Finance</p> <p><i>Assistant Professors</i> NILANJAN BASU MARIA BOUTCHKOVA SERGEY ISAENKO YAXUAN QI RAHUL RAVI THOMAS WALKER</p> <p><i>Senior Lecturer</i> JAY MANNADIAR</p> <p><i>Lecturers</i> REENA ATANASIADIS DEREK HIRSCH JULIE SLATER</p>		
<p><i>Location</i></p>	<p>Sir George Williams Campus GM Building, Room: 300-55 514-848-2424 ext. 2789</p>		
<p><i>Department Objectives</i></p>	<p>The Department of Finance is committed to excellence in both research and teaching and has earned a solid reputation as a productive and research oriented academic unit. The Department's research activities include theoretical, empirical, and applied contributions — all aimed at furthering knowledge in the field. Its teaching activities cover a wide range of topics including corporate finance, investment, international finance, personal finance, optimization techniques, portfolio management, options and futures and fluctuations in security prices, exchange rates, and interest rates.</p> <p>Teaching effectiveness represents the cornerstone of the Department's teaching objectives. The Department's curriculum is a dynamic one which keeps up with current trends and innovations in the financial area. Department members have been recognized not only with Faculty Teaching Awards but also internationally by winning the 3M Teaching Fellowship Award.</p> <p>The Department has developed orientation and training programs with major corporations and financial institutions for its students. Through this type of external involvement, classroom teaching is effectively blended with the complexities of the real world thereby providing students not only with a more meaningful education but also with job opportunities.</p>		
<p><i>Programs</i></p>	<table> <tr> <td data-bbox="482 1386 948 1854"> <p>30 Honours in Finance</p> <p>3 FINA 385 3 FINA 395 18 additional 400-level credits offered by the Department 6 FINA 495</p> <p><i>Students are eligible to apply to the Honours program if they have completed FINA 385, FINA 395, and six additional credits in Finance. Applicants must have achieved a minimum cumulative GPA of 3.3 and a minimum GPA of 3.5 in their Finance courses. Enrolment in this program is limited. The selection process may include recommendations from faculty members as well as interviews of applicants to this program. The deadline for applications is March 1.</i></p> </td><td data-bbox="948 1386 1367 1854"> <p>24 Major in Finance</p> <p>3 FINA 385 3 FINA 395 18 additional 400-level credits offered by the Department</p> <p>12 Minor in Finance</p> <p>3 FINA 385 3 FINA 395 6 additional 400-level credits offered by the Department</p> </td></tr> </table>	<p>30 Honours in Finance</p> <p>3 FINA 385 3 FINA 395 18 additional 400-level credits offered by the Department 6 FINA 495</p> <p><i>Students are eligible to apply to the Honours program if they have completed FINA 385, FINA 395, and six additional credits in Finance. Applicants must have achieved a minimum cumulative GPA of 3.3 and a minimum GPA of 3.5 in their Finance courses. Enrolment in this program is limited. The selection process may include recommendations from faculty members as well as interviews of applicants to this program. The deadline for applications is March 1.</i></p>	<p>24 Major in Finance</p> <p>3 FINA 385 3 FINA 395 18 additional 400-level credits offered by the Department</p> <p>12 Minor in Finance</p> <p>3 FINA 385 3 FINA 395 6 additional 400-level credits offered by the Department</p>
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**Finance
Co-operative
Program**

Director
JAY MANNADIAR, *Senior Lecturer*
514-848-2424 ext. 2919

The Finance Co-operative program is offered to students who are enrolled in the BComm program and are majoring in Finance.
The academic content of the co-op program is identical to that of the regular program, but three work terms are interspersed with six study terms.
Students are supervised individually and must meet the requirements specified by both the John Molson School of Business and the Institute for Co-operative Education in order to continue their studies in the co-op format.
Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Finance Co-op Academic Director and the co-op committee.
Please refer to §24 of this Calendar for a full description of the co-operative format of the program.

Courses

FINA 200 *Personal Finance* (3 credits)
This course is offered online. It is designed to help individuals better manage their current and future financial affairs. The course introduces the terminology and basic concepts underlying personal financial management. It helps students set goals and develop skills to conduct basic research when making personal financial decisions. The topics covered include financial planning, money management, personal income taxes, costs of consumer credit, concepts of time value of money, investing in stocks, bonds and mutual funds, mortgages, and retirement planning.
NOTE: Finance Majors and Minors may not take this course for credit towards their Major or Minor.
NOTE: Students who have received credit for this topic under a COMM 499 number may not take this course for credit.

FINA 210 *Introduction to Real Estate*
(3 credits)
This course introduces the concepts, principles, analytical methods and tools used for investment, development, and evaluation of real estate assets. The course focuses on issues such as market and feasibility analysis, investment property analysis, forms of ownership, valuation by alternate approaches, mortgages, borrower-lender relationships, investing in income property, commercial property financing, real estate investment trusts (REITs), and legal and property rights among co-owners.
NOTE: Finance Majors and Minors may not take this course for credit towards their Major or Minor.
NOTE: Students who have received credit for FINA 450 or for this topic under a COMM 499 number may not take this course for credit.

FINA 370 *(also listed as IBUS 370)*
International Financial Management (3 credits)
Prerequisite: COMM 220, 308. This course is designed for students to acquire and demonstrate knowledge of the fundamental principles and issues in international financial management. It covers such topics as foreign exchange markets, exchange rate behaviour, structure and meaning of the international balance of payments, the functioning of fixed and floating exchange rate

systems, short- and long-term investment and borrowing decisions, euro-currency markets, foreign exchange risk management, and capital budgeting decisions for overseas investment. In sum, the topics are covered from the perspective of an individual who wishes to know how the international financial environment will affect the firm.
NOTE: Finance Majors and Minors may not take this course for credit toward their Major or Minor.
NOTE: Students who have received credit for IBUS 370 or FINA 470 may not take this course for credit.

FINA 385 *Theory of Finance I* (3 credits)
Prerequisite: COMM 220, 308. This course is the first of two that provide a theoretical foundation upon which subsequent 400-level courses will be built. The course examines the allocation of capital in financial markets and the determination of the relative prices of financial assets. Topics covered include utility theory, arbitrage pricing theory, and asset pricing models such as the Capital Asset Pricing Model and the option pricing model. Applications explored include arbitrage, the design of markets and the appropriate responses of individuals and firms to changes in market conditions as well as to market imperfections.
NOTE: Students who have received credit for FINA 380 may not take this course for credit.

FINA 395 *Theory of Finance II* (3 credits)
Prerequisite: COMM 220, 308; FINA 385 previously or concurrently. This course focuses on the financial theory of the firm and examines the Modigliani-Miller propositions, agency theory, and asymmetric information theory. Topics covered include capital structure and the cost of capital, investment and financing decisions, real options, valuation and issuance of new securities, mergers and acquisitions, and leveraged buyout decisions.
NOTE: Students who have received credit for FINA 390 or 400 may not take this course for credit.

FINA 402 *Short-Term Financial Management* (3 credits)
Prerequisite: FINA 380 or 385; FINA 390 or 395.

This course is concerned with the key aspects of short-term financial management. It begins with a brief coverage of the institutional environment facing the financial manager in Canada. A detailed coverage of sources for short-term borrowing and investments is presented. The structure of the Canadian financial system along with a description of the various methods of effecting payments as well as the clearing and settlement system are covered. Topics in overall liquidity management are briefly reviewed from a theoretical perspective. Traditional subjects in cash management such as collections, disbursement and control, forecasting, company bank relationship, short-term investment, and borrowing are examined next. Such new developments as electronic data interchange and EFT/POS are also examined. The course also provides a coverage of trade credit both from a theoretical positive standpoint and a normative viewpoint.

FINA 405 Cases in Finance (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course uses case discussions to focus on the application of the principles of finance learned in FINA 385 and 395 in real-world contexts. Cases will cover topics in corporate finance, investments, and financial markets and institutions.

NOTE A/See \$200.2

NOTE: Students who have received credit for FINA 490 may not take this course for credit.

FINA 410 Investment Analysis (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course is devoted to an examination of the investment decision, both from the viewpoint of the individual investor and the institutional investor. The course examines valuation of different financial instruments such as treasury bills, bonds, common stocks, preferred stocks, options, warrants, convertibles, rights, commodity and financial futures, mutual funds, and pension funds. The use of different instruments in various investment strategies such as investment, speculation, hedging, and arbitrage are also examined. Techniques examined by analysts to pick investments such as fundamental analysis, technical analysis, and quantitative analysis are studied.

NOTE A/See \$200.2

FINA 411 Portfolio Management (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course focuses on modern investment theory and its application to the management of entire portfolios. Topics include: a) construction of optimal asset portfolios using techniques such as the single index model, b) extensions of the capital asset pricing model and tests (e.g. the zero-beta model), c) criteria for evaluation of investment performance, d) active vs. passive portfolio management, e) portfolio insurance, and f) market efficiency. A computer exercise is assigned to illustrate the application of the theory.

NOTE A/See \$200.2

FINA 412 Options and Futures (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395.

This course is a comprehensive analysis of the options and futures markets in North America. The student is introduced to the different markets for these instruments and their institutional details. The different types of options and futures currently trading are examined. The principles of valuation of futures and options, their use in risk management through hedging techniques and their use in speculative strategies are studied. Emphasis is placed on the analysis of financial options and futures.

FINA 413 Advanced Topics in Derivative Markets (3 credits)

Prerequisite: FINA 412. This course focuses on advanced topics in the area of derivatives. Topics covered include the valuation of derivatives using numerical procedures and martingales, modelling the term structure of interest rates, valuation of interest rate swaps, interest rate options, caps, floors, swaptions and exotic options, and application of derivatives in risk management such as value at risk models, estimation of volatility and credit risk derivatives.

FINA 415 Mergers and Acquisitions (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course examines the financial aspects of mergers and acquisitions. Basic financial theory and empirical evidence related to corporate control activity is discussed. Some of the topics covered include target identification and valuation, bidding strategies, defensive strategies, financing strategies and growth by acquisition strategies. In addition, going private transactions such as leverage buyouts and management buyouts are discussed.

FINA 450 Real Estate Investment and Finance (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course deals with the central issues in real estate finance and investment, and with recent advances in the field. Students will be introduced to basic topics such as the organization of real estate markets, pricing, inflation, taxation, valuation methods, brokerage, ownership forms, and real estate law. In addition, they will study recent advances in finance as they apply to the concept of real estate valuation. Principles learned in FINA 385 and 395, and in academic journals will serve as the basis for this aspect of the course.

NOTE: This course is offered for Finance Majors and Minors only. Non-Finance Majors and Minors must register for FINA 210.

FINA 455 Seminar in Finance (3 credits)

This course is intended primarily for Finance Majors and Minors. It provides an opportunity for more intensive study in one or more specific topics of finance. The topic varies according to the special interests of the professor and the students. Enrolment is restricted and is subject to

departmental approval. *NOTE A/See §200.2*
NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

FINA 465 *Trading in Financial Securities*
(3 credits)

Prerequisite: FINA 412; permission of the Department. This course focuses on developing practical skills in trading financial securities. Topics covered include general trading practices, fundamental and technical analysis, term structure of interest rates, arbitrage opportunities, and trading strategies using options, futures and options on futures contracts. Speakers from the finance industry are also invited to share their experiences with the students.

NOTE: Students who have received credit for this topic under an FINA 455 number may not take this course for credit.

FINA 470 *International Finance* (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. This course examines the fundamental principles and issues in international finance. After examining the recent global evolution of the international financial environment, the institutional characteristics of foreign exchange and euro-currency markets will be studied. In addition, in-depth coverage of various issues relating to forecasting exchange rates, capital movements, and the international structure of interest rates is provided. Several mechanisms for managing international exchange and financial risk will be assessed, including forwards, options, and futures on currencies as well as on interest rates. The course will conclude with a survey of recent international asset pricing models.

NOTE: This course is offered for Finance Majors and Minors only. Non-Finance Majors and Minors must register for FINA 370.

NOTE: Students who have received credit for FINA 370 or IBUS 370 may not take this course for credit.

FINA 471 *Multinational Financial Management* (3 credits)

Prerequisite: FINA 470. This course addresses financial issues that corporations, investors, or financial institutions face when they expand their operations to the international environment. Topics addressed include international capital budgeting and capital structure, political risk, financing international trade, multinational cost

of capital, international corporate governance, and international working capital management. Financial markets and institutions in emerging economies are also examined.

FINA 481 *Management of Financial Institutions in the Domestic Environment* (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. The objective of this course is to provide a framework for the management of financial institutions within the domestic environment. Specific topics include an overview of the different types of financial institutions such as banks, insurance companies, investment banks, pension funds and mutual funds, and the management of risks facing these intermediaries while operating within the domestic economy, such as liquidity risk, interest rate risk, market risk, and credit risk.

NOTE: Students who have received credit for FINA 480 may not take this course for credit.

FINA 482 *Management of Financial Institutions in the International Environment* (3 credits)

Prerequisite: FINA 380 or 385; FINA 390 or 395. The objective of this course is to provide a framework for the management of financial institutions within the international environment. A brief introduction to the different types of financial institutions is followed by a detailed analysis of the management of the risks faced while operating in an international environment, such as credit risk, foreign exchange risk and off-balance sheet risk, as well as advances in the areas of regulation of financial institutions such as capital adequacy guidelines, deposit insurance, and universal banking.

FINA 495 *Honours Seminar in Finance*
(6 credits)

Prerequisite: Enrolment in the Honours program. This seminar is offered to Honours students in Finance over a period of two terms. In the first term, the seminar covers methodology and recent advances in research in topics covered in the Finance curriculum. In addition, students begin working on a thesis/project to be conducted under the supervision of a faculty member. In the second term, students complete their thesis/project and are required to submit a written report to be presented at the seminar at the end of the term.

61.80 *INTERNATIONAL BUSINESS*

Program Director
TERRI LITUCHY

<i>Location</i>	Sir George Williams Campus GM Building, Room: 201 514-848-2424 ext. 2721		
<i>Program Objectives</i>	<p>The globalization of business is increasing the demand for managers who are comfortable working in a variety of diverse and multi-cultural environments. The Major in International Business is an attractive and exciting preparation for such a career. International business issues are examined from a strategic perspective and students are also exposed to several disciplines including international management, marketing, and finance, as well as international aspects of politics, economics, and sociology. Students are strongly encouraged to enrol in language courses as elective courses. Adding a Minor in a more specific discipline of interest is also suggested to further complement this program. Participation in the International Student Exchange Program is also highly recommended. This experience will add a more relevant and unique perspective to the overall scope of this exciting degree.</p>		
<i>Programs</i>	<p>24 Major in International Business 9 IBUS 462, 466, 492 15 additional credits chosen from IBUS 370, 465, 471, 493; ECON 319; POLI 305, 307, 315, 394</p>	<p>12 Minor in International Business 9 IBUS 462, 466, 492 3 additional credits chosen from IBUS 370, 465, 471, 493</p>	
<i>Courses</i>	<p>IBUS 370 (also listed as FINA 370) International Financial Management (3 credits) Prerequisite: COMM 308. This course is designed for students to acquire and demonstrate knowledge of the fundamental principles and issues in international financial management. It covers such topics as foreign exchange markets, exchange rate behaviour, structure and meaning of the international balance of payments, the functioning of fixed and floating exchange rate systems, short- and long-term investment and borrowing decisions, euro-currency markets, foreign exchange risk management, and capital budgeting decisions for overseas investment. In sum, the topics are covered from the perspective of an individual who wishes to know how the international financial environment will affect the firm. NOTE: Students who have received credit for FINA 370 may not take this course for credit.</p> <p>IBUS 462 (also listed as MARK 462) Environment of World Business (3 credits) Prerequisite: COMM 210, 224, 305, 308; COMM 215 or equivalent. This is a foundation course in international business; the objective is to present information which exposes the student to cultural, social, political, economic, legal, and financial environments in which Canadian business executives manage their operations abroad. All students are encouraged to develop their own philosophy towards international business activities by developing research and analytical skills in analysing current and long-term problems perceived in different economic systems and environments. Specific topics include empirical dimensions of world economy, economic development, international trade and investment patterns, regional economic co-operation, area studies, Canadian nationalism, and foreign investment in Canada, etc. NOTE: Students who have received credit for MARK 462 may not take this course for credit.</p> <p>IBUS 465 (also listed as MARK 465) International Marketing Management (3 credits) Prerequisite: COMM 224; MARK 462 or IBUS 462. This course studies the management approach to international marketing, with emphasis on key variables that are controllable by the international marketing manager. Attention is focused on market measurement, product policy, channels, pricing, and promotion, with special emphasis on the development and control of multinational marketing strategies and programs. Students will execute a project directed to a selected part of the world. NOTE: Students who have received credit for MARK 465 may not take this course for credit.</p> <p>IBUS 466 (also listed as MANA 466) Management of Multinational Corporations (3 credits) Prerequisite: MARK 462 or IBUS 462; COMM 222. This is a course that demonstrates the analytical</p>		

tools of operations and organization theory applicable within a multinational company. The course is designed to give students a grasp of the problems of strategy formulation and organization, and inculcates a general knowledge of the major parameters in which an international manager operates. Focus is on the Canadian as well as other international companies based in U.S.A., Europe, Japan, etc.

NOTE: Students who have received credit for MANA 466 may not take this course for credit.

IBUS 471 *Topics in International Business* (3 credits)

Prerequisite: MARK 462 or IBUS 462. This course is intended primarily to provide an opportunity for more intensive study in one or more specific topics of international business. The topic will vary according to the special interests of the professor and the students.

NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

**IBUS 492 *(also listed as MARK 492)
Cross-Cultural Communications and Management*
(3 credits)**

Prerequisite: MARK 462 or IBUS 462. This course deals with the multicultural dimensions of international business operations. The objective is to develop Canadian managerial skills for effective performance in an international setting. Topics to be covered include international negotiations,

management of multicultural personnel, cross-cultural consumer behaviour profile, cross-cultural communication, and other cultural aspects of marketing strategy.

NOTE: Students who have received credit for MARK 492 may not take this course for credit.

**IBUS 493 *(also listed as MANA 493)
International Business Law*
(3 credits)**

Prerequisite: MARK 462 or IBUS 462; COMM 315. This course is an introduction to international business law. The focus is Canadian but comparative material is included and problems relating to other legal systems are examined. Topics to be covered include private laws applicable to international business transactions, international sales, federal regulations, export controls and anti-dumping, export insurances, and bilateral trade agreements.

NOTE: Students who have received credit for MANA 493 may not take this course for credit.

61.90 MANAGEMENT

Faculty	Professor and Chair of the Department KAMAL ARGHEYD		MARYLÈNE GAGNÉ KAI LAMERTZ TERRI LITUCHY	
	Professors STEVEN H. APPELBAUM MICK CARNEY LINDA DYER A. BAKR IBRAHIM MUHAMMAD JAMAL GARY JOHNS JEAN MCGUIRE RICK MOLZ ROBERT J. OPPENHEIMER PRAMODITA SHARMA SANJAY SHARMA WILLIAM TAYLOR		Assistant Professors KATHLEEN BOIES TRACY HECHT CLAUDE MARCOTTE MARTIN L. MARTENS	
	Associate Professors STÉPHANE BRUTUS ISABELLE DOSTALER MEHDI FARASHAHI RONALD FERGUSON		Senior Lecturers TOM O'CONNELL TIMA PETRUSHKA-BORDAN BARBARA SHAPIRO	
			Lecturers JESSICA ANDREWS DENIS BEAUCHESNE DUNCAN CAMERON FRANK CROOKS	
Location	Sir George Williams Campus GM Building, Room: 503-37 514-848-2424 ext. 2924			
Department Objectives	The Management Department plays a critical role in introducing a general management perspective to integrate the specialist orientation of other Departments. As a result, its courses are tailored to be practical and most feature a process of skill-building orientation enhanced by case discussions, experimental exercises, role plays, and student presentations. The major topic areas covered are organizational behaviour and design, strategies and policy, human resource management, entrepreneurship and small business management, industrial relations, and business law.			
Programs	24	Major in Management	24	Major in Human Resource Management
	12	MANA 341, 342, 362, 420	18	MANA 342, 362, 366, 420, 446, 463
	12	Additional 300- or 400-level credits offered by the Department; IBUS 492	6	Additional credits chosen from MANA 443, 444, 445, 498
	12	Minor in Management	12	Minor in Human Resource Management
	6	MANA 341, 342	3	MANA 362
	6	Additional 300- or 400-level credits offered by the Department	9	Credits of MANA 443, 444, 446, 463, 498
Management Co-operative Program	Director BARBARA SHAPIRO, Senior Lecturer 514-848-2424 ext. 2780			
	The Management Co-operative program is offered to students who are enrolled in the BComm program and are majoring in Human Resource Management. The academic content of the co-op program is identical to that of the regular program, but three work terms are interspersed with six study terms. Students are supervised individually and must meet the requirements specified by both the John Molson School of Business and the Institute for Co-operative Education in order to continue their studies in the co-op format. Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Management Co-op Academic Director and the co-op committee. Please refer to §24 of this Calendar for a full description of the co-operative format of the program.			

MANA 211 Business Law (6 credits)
A general survey of the law obtaining in the Province of Quebec, with special emphasis on the aspects thereof relating to business and commerce. It includes a basic outline of the law of domicile, marriage, persons, property, ownership and its modifications, successions, gifts and wills, testamentary executors, contracts, quasi-contracts, offences and quasi-offences, privileges, hypothecs and prescription, and a more detailed study of the contract of sale, lease and hire of things and of work, mandate, loan, deposit, partnership, suretyship, pledge, insurance, and an outline of the basic law applying to negotiable instruments, corporations, carriers, bankruptcy and winding up, and copyrights, patents, and trade marks.
NOTE A/See \$200.2
NOTE: JMSB students may not take this course for credit.

MANA 213 Foundations of Behaviour (3 credits)
The purpose of this course is to introduce the student to those behavioural concepts relevant to the study of organizational problems. Topics include perception, attitudes, personality, group behaviour, roles, and culture as they relate to organizational processes.
NOTE: Students who have received credit for PSYC 200 or equivalent may not take this course for credit.
NOTE: JMSB students may not take this course for credit.

MANA 266 Foundations of Modern Management (3 credits)
This course introduces students to the basic elements of the managerial process (e.g., planning, organizing, controlling, motivating, etc.) and presents the historical base upon which contemporary management theory and practice is built. The evolution and scope of management are considered, with illustrations from both large and small Canadian enterprises.
NOTE: Students entering the BComm or BAdmin program as of September 1996 may not take this course for credit.

MANA 341 Organization Theory (3 credits)
Prerequisite: COMM 222. The function, structure, and processes of organizations provide the focus for study. Interrelationships among the psychosocial, technological, and formal properties of organizations are examined. Emphasis is placed on the diagnosis, analysis of organizational problems, and optimal-design alternatives for improving organizational performance and effectiveness are explored. The objective is to provide the student with a thorough understanding of the nature of contemporary complex organizations.

MANA 342 Organizational Change and Development (3 credits)
Prerequisite: COMM 222. This course provides

an overview of the theories and practices related to implementing changes in organizations. Emphasis is placed on the various approaches to the planning and implementation of change. Opportunities to apply these approaches in real or simulated settings are provided.

MANA 343 Negotiation and Conflict Resolution (3 credits)
Prerequisite: COMM 222. This course examines the causes and consequences of disputes and provides alternative strategies for negotiating and resolving conflicts. It utilizes lectures, videos, cases, interactive exercises, empirical research and videotaping to convey concepts and enhance one's ability to effectively negotiate and resolve disputes.

MANA 362 Human Resource Management (3 credits)
Prerequisite: COMM 222. The aim of the course is to provide a sound background in fundamentals, theory, principles, and practice of human resource management. It focuses on the areas of human resource planning, personnel recruitment, selection and placement, performance appraisal, and career planning. *NOTE A/See \$200.2*

MANA 366 Industrial Relations and Collective Bargaining (3 credits)
Prerequisite: COMM 222. This course provides a broad overview of the employee-employer relationship. It describes the interplay between the various actors of industrial relations: unions, employees, employers, government, and legislators. The course focuses on major labour-management issues, including collective bargaining, union certification, and work-conflict outcomes such as strikes, lock-outs, and arbitration. The day-to-day problems of negotiating and administering collective agreements are also addressed.

MANA 369 Business and Environment (3 credits)
Prerequisite: COMM 224, 308. The purpose of this course is to examine the functioning of Canadian business in its global environment. The course covers relationships with the public, including stockholders, consumers, employees, labour, community, and government. Major contemporary issues, such as the impact of technology on people and the physical environment, are examined. *NOTE A/See \$200.2*

MANA 420 Business Research Methods (3 credits)
Prerequisite: COMM 222, 215. This seminar focuses on the means by which social and organizational data can be gathered, analysed, and interpreted. Needs of the firm for efficient, timely, and unobtrusive research are given special attention. Topic coverage includes applications of the scientific method, research design, field research techniques, data analysis, research utilization, and use of existing information

sources. Student projects parallel the classroom activities by designing and conducting business research studies of limited scale.

MANA 443 Compensation and Benefits Management (3 credits)

Prerequisite: MANA 362. The purpose of this course is to provide a thorough understanding of the role, conceptual basis, procedures, and methods associated with the management and administration of compensation and benefits within an organization. Issues such as job families and ladders, salary surveys, position valuation, pay equity, incentive compensation, and benefits administration are addressed.

MANA 444 Training and Development (3 credits)

Prerequisite: MANA 362. This course examines the conceptual and practical issues regarding orientation of new employees, the socialization process, learning theories and diagnoses, training technologies, developmental strategies, and the management of the training and development function.

MANA 445 Health and Safety Management (3 credits)

Prerequisite: MANA 362. This course examines the critical aspects of health and safety administration within organizations. It provides a brief overview of the relevant legislation and focuses upon prevention, causes, detection, intervention, reintegration, epidemiological and clinical investigation, and health development. Physical and psychological aspects of health and safety are examined.

MANA 446 Staffing (3 credits)

Prerequisite: MANA 362. This course is designed to cover the theory, research, and practice of organizational staffing. The focus of this course will be on how to staff organizations effectively, with qualified employees. It will cover legal issues, job analysis, human resource planning, recruitment, the different selection tools/techniques available to HR practitioners, and the use of information systems.

MANA 447 Leadership and Motivation (3 credits)

Prerequisite: COMM 222. This course is designed to familiarize students with current research and theory on motivation and leadership, and their synergy and application in a work context. Implications for the design of reward systems and leader development will be addressed. Class activities will include student presentations, small group discussions, exercises, cases, and simulations.

NOTE: Students who have received credit for MANA 442 may not take this course for credit.

MANA 451 Managing a Small Business (3 credits)

Prerequisite: COMM 320 or 410. This introductory course emphasizes the operational aspects of

management that are uniquely important to a small enterprise. It provides opportunity to practise operational decision-making under conditions characteristic for small firms.

MANA 461 Implementing Competitive Strategies (3 credits)

Prerequisite: COMM 401 or 310. Bridging the gap between the classroom and the practical day-to-day running of a contemporary business enterprise, this course explores the process by which strategy is linked to managerial action. Corporate strategy states the general direction that the organization will follow. Functional strategy is a formulation of how the business unit intends to compete in its given business sector. We examine how functional strategies can be key instruments for the realization of business and corporate strategies. *NOTE A/See \$200.2*

MANA 463 Strategic Human Resource Management (3 credits)

Prerequisite: MANA 362, and any two of the following: MANA 402, 443, 444, 446. This course is a final-year integrative seminar for Human Resource Management majors. It focuses on the philosophies underlying current human resource management principles and policies and the processes of their implementation. It utilizes cases to integrate human resource management areas such as recruitment, selection, training, performance appraisal, compensation, and benefits administration.

MANA 466 (also listed as IBUS 466) Management of Multinational Corporations (3 credits)

Prerequisite: IBUS 462 or MARK 462; COMM 222. This is a course that demonstrates the analytical tools of operations and organization theory applicable within a multinational company. The course is designed to give students a grasp of the problems of strategy formulation and organization, and inculcates a general knowledge of the major parameters in which an international manager operates. Focus is on the Canadian as well as other international companies based in U.S.A., Europe, Japan, etc.

NOTE: Students who have received credit for IBUS 466 may not take this course for credit.

MANA 476 Managerial Law (3 credits)

Prerequisite: COMM 315. Federal and provincial government regulation of business, including bankruptcy, anti-combines, trade marks and patents, labour law, insurance, special commercial contracts including secured transactions, fair employment, environmental law.

MANA 477 Bankruptcy and Business Reorganization (3 credits)

Prerequisite: COMM 315. An examination of the Bankruptcy and Insolvency Act and related cases dealing particularly with forced and voluntary bankruptcy; business reorganization using proposals to creditors and other available tools; creditor

recourses; the personal liability of directors and officers towards creditors; the role of the trustee in bankruptcy and reorganization; overturning fraudulent transactions and recovering assets for creditors; the sale of assets, ranking of creditors, and distribution of the estate.

MANA 478 *Company Law* (3 credits)

Prerequisite: COMM 315. The examination of important legal issues relating to the business corporation, including an analysis of their legal nature and structure, and the powers, rights, and obligations of directors, officers, and shareholders, including analysis of the legal implications, insider trading, company re-organization, mergers, joint ventures, and takeovers. These matters are studied through the Federal, Quebec, and Ontario Companies' Acts and relevant court cases.

MANA 479 *Labour Law* (3 credits)

Prerequisite: COMM 315. A study of the law and relevant court cases dealing with major labour-management issues, including collective bargaining, union certification, strikes, lock-outs, grievances, and arbitration. Covers Canadian law, primarily that of Quebec.

**MANA 493 *(also listed as IBUS 493)*
*International Business Law***
(3 credits)

Prerequisite: IBUS 462 or MARK 462; COMM 315. This course is an introduction to international business law. The focus is Canadian but comparative material is included and problems relating to other legal systems are examined. Topics to be covered include private loans applicable to international business transactions, international sales, federal regulations, export controls and anti-dumping, export insurances, and bilateral trade agreements. *NOTE: Students who have received credit for IBUS 493 may not take this course for credit.*

**MANA 498 *Special Topics in Human
Resource Management***
(3 credits)

Prerequisite: Written permission of the Department. This course is intended to complement and supplement human resource management (HRM) courses taken previously or concurrently. The course emphasizes HRM literature and modern thought.

NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

MANA 499 *Special Topics in Management*
(3 credits)

Prerequisite: Written permission of the Department. Intended to complement and supplement business courses taken previously or concurrently, this course emphasizes business literature and modern thought. Students are encouraged to work independently on research topics of interest to them. Students repeating MANA 499 register for credits under MANA 498.

NOTE A/See §200.2

NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

61.100 MARKETING

Faculty	Associate Professor and Chair of Department LEA PREVEL KATSANIS	JORDAN LE BEL MICHELE PAULIN GAD SAAD MRUGANK V. THAKOR
	Distinguished Professor Emeritus V.H. (MANEK) KIRPALANI	
	Professors BRYAN BARBIERI ULRIKE de BRENTANI ANNAMMA JOY MICHEL LAROCHE CHRISTOPHER A. ROSS	Assistant Professors ZEYNEP ARSEL BIANCA GROHMANN HAKKYUN KIM TIESHAN LI JOOSEOP LIM DARLENE WALSH
	Associate Professors ONUR H. BODUR B. KEMAL BÜYÜKKURT B. ZEKI GIDENGIL	Lecturer HAROLD SIMPKINS
Location	Sir George Williams Campus GM Building, Room: 300-31 514-848-2424 ext. 2952	
Department Objectives	The Marketing Department seeks to cultivate in each student the skills and perspectives essential for effective and responsible marketing. Emphasis is on creating marketing strategies and plans based on a thorough understanding of consumer and industrial buying behaviour. The Department is committed to fostering a dynamic entrepreneurial orientation together with an appreciation of the essence, importance, and potential power of marketing.	
Programs	24 Major in Marketing 3 MARK 402 3 MARK 405 3 MARK 495 15 MARK credits offered by the Department.	12 Minor in Marketing 3 MARK 402 3 MARK 405 6 MARK credits offered by the Department.
Marketing Co-operative Program	<p>Director HAROLD J. SIMPKINS, Senior Lecturer 514-848-2424 ext. 2955</p> <p>The Marketing Co-operative program is offered to students who are enrolled in the BComm program and are majoring in Marketing. The academic content of the co-op program is identical to that of the regular program, but three work terms are interspersed with six study terms. Students are supervised individually and must meet the requirements specified by both the John Molson School of Business and the Institute for Co-operative Education in order to continue their studies in the co-op format. Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Marketing Co-op Academic Director and the co-op committee. Please refer to §24 of this Calendar for a full description of the co-operative format of the program.</p>	
Courses	<p>MARK 201 Introduction to Marketing (3 credits)</p> <p>This course introduces non-Commerce students to the managerial concepts and practices of marketing. The process of developing a marketing strategy is examined along with the factors and interrelationships related thereto. Readings and cases are used to help students apply these concepts in a variety of business settings.</p> <p>NOTE: This course is available to non-Com-</p>	<p>merce program students only. Any such student intending to register in the Marketing Elective Group for Non-Commerce Students or intending to take specific upper-level Marketing courses must take this course as a prerequisite.</p> <p>MARK 402 Marketing Research (3 credits)</p> <p>Prerequisite: COMM 224 or MARK 201. The role of research in the marketing process, the role of models, and the development of measurement</p>

techniques are discussed. Emphasis is placed on the nature and scope of marketing research methods for obtaining internal and external data, and on the steps and principles involved in gathering and analysing data. The student is also briefly introduced to applications of marketing research and to the technique involved in conducting a marketing study.
NOTE A/See §200.2

MARK 405 Consumer Behaviour (3 credits)
Prerequisite: COMM 224 or MARK 201. This course analyses the motivations, roles, and behaviour of the consumers, how they are affected by economic, social, and cultural influences, and how the marketer may model this behaviour for decision-making purposes.
NOTE A/See §200.2
NOTE: Although not required, it is strongly recommended that MARK 402 be taken prior to or concurrently with this course.

MARK 453 Advertising (3 credits)
Prerequisite: COMM 224 or MARK 201. The objectives of this course are to provide the student with an introduction to an understanding of the principles of advertising from three different viewpoints: the nature of services provided by advertising agencies, the needs of the users (i.e. business, institutions) of these services, the needs of society in economic, ethical, and legal terms. *NOTE A/See §200.2*

MARK 454 Personal Selling and Sales Management (3 credits)
Prerequisite: COMM 224 or MARK 201. This course has a dual focus: the cultivation of personal selling skills, and the theoretical and applied aspects of managing the personal selling function. Cases, readings, simulations, and presentations are deployed to achieve the course goals.
NOTE A/See §200.2

MARK 455 Direct-Response Marketing (3 credits)
Prerequisite: COMM 224 or MARK 201. This course explores state-of-the-art managerial approaches and analytical techniques for developing, executing, and evaluating direct-response marketing programs. Through recent case studies, comprehensive projects, and/or empirical field research, the student will learn about strategies, offer planning and positioning, list selection and segmentation, creative strategies, data base marketing, fulfilment process, testing, media (catalogues, mail, telephone, broadcast, print, and others) and application of direct marketing to industrial settings.

MARK 460 Integrated Marketing Communications (3 credits)
Prerequisite: COMM 224 or MARK 201; MARK 402, 405, 453; 455 or 491M previously or concurrently. This course examines the disciplines, rigours, and interrelationships involved in planning and synergistically integrating the various components of a firm's

communication mix, with particular emphasis on advertising, sales promotion, public relations, personal selling, and reseller support. Students will develop an actual integrated marketing communications plan for a product, service, or idea using the concepts discussed in class.

MARK 462 (also listed as IBUS 462) Environment of World Business (3 credits)
Prerequisite: COMM 210, 224, 305, 308; COMM 215 or equivalent. This is a foundation course in international business; the objective is to present information which exposes the student to cultural, social, political, economic, legal, and financial environments in which Canadian business executives manage their operations abroad. All students are encouraged to develop their own philosophy towards international business activities by developing research and analytical skills in analysing current and long-term problems perceived in different economic systems and environments. Specific topics include empirical dimensions of world economy, economic development, international trade and investment patterns, regional economic co-operation, area studies, Canadian nationalism, and foreign investment in Canada, etc.
NOTE: Students who have received credit for IBUS 462 may not take this course for credit.

MARK 463 Retailing (3 credits)
Prerequisite: COMM 224 or MARK 201. This course seeks to apply the theories of marketing and administration to the retail situation. Topics to be covered include site selection for single and multi-unit retail outlets, organizing and staffing the retail operation, the wholesaler-retailer relationship, consumer behaviour in the retail situation. The impact of such new developments as consumer cooperatives, franchising, discounting, and computer technology on the future of retailing is also considered.
NOTE A/See §200.2

MARK 465 (also listed as IBUS 465) International Marketing Management (3 credits)
Prerequisite: COMM 224; MARK 462 or IBUS 462. This course studies the management approach to international marketing, with emphasis on key variables that are controllable by the international marketing manager. Attention is focused on market measurement, product policy, channels, pricing, and promotion, with special emphasis on the development and control of multinational marketing strategies and programs. Students will execute a project directed to a selected part of the world.
NOTE: Students who have received credit for IBUS 465 may not take this course for credit.

MARK 480 Customer Service Excellence (3 credits)
Prerequisite: COMM 224 or MARK 201. This course explores the nature and scope of customer service, its importance in business,

its impact on profitability, its dimensions, and how to manage it. Through field studies in given industries, the student will 1) identify examples of outstanding service and of very poor service to gain a better appreciation of customers' expectations and of their assessment of current levels of customer service delivery, 2) analyse service encounters to understand the many dimensions of customer service, 3) gather, evaluate, and improve existing measures of customer satisfaction to learn how companies should go about getting feedback about themselves, and 4) identify and evaluate current customer service training practices to understand whether companies are "paying lip service" or "walking the talking".

MARK 485 *Business-to-Business Marketing* (3 credits)

Prerequisite: COMM 224 or MARK 201. The course focuses on the managerial aspects of industrial marketing. The concept of organization buying behaviour and its impact on marketing strategy formulation are discussed. Management of the industrial marketing mix considering product service development, intelligence, promotion, channels, and performance measurement is covered, both in existing product lines and new product-launch activities.

MARK 486 *Product Strategy and Innovation* (3 credits)

Prerequisite: COMM 224 or MARK 201. The focus of this course is the development of a dynamic and successful product strategy for the organization. Topics covered include product life cycle concepts, the adoption and diffusion of innovations, strategic product planning, developing the service offering, and the process of innovating and launching new products and services.

MARK 491 *Special Topics Seminar* (3 credits)

Prerequisite: Written permission of the Department. This seminar is an inquiry into various selected topics which vary from year to year. Students repeating MARK 491 register for credits under MARK 492. *NOTE A/See \$200.2*
NOTE: Specific topics for this course and prerequisites relevant in each case will be stated in the Undergraduate Class Schedule.

MARK 492 *(also listed as IBUS 492) Cross-Cultural Communications and Management* (3 credits)

Prerequisite: MARK 462 or IBUS 462. This course deals with the multicultural dimensions of international business operations. The objective is to develop Canadian managerial skills for effective performance in an international setting. Topics to be covered include international negotiations, management of multicultural personnel, cross-cultural consumer behaviour profile, cross-cultural communication, and other cultural aspects of marketing strategy.
NOTE: Students who have received credit for IBUS 492 may not take this course for credit.

MARK 495 *Strategic Marketing Planning* (3 credits)

Prerequisite: Sixty credits including MARK 402, 405, and nine other Marketing credits at the 400 level. This is a holistic, integrative, capstone course directed primarily to cultivating the skills and techniques required for effective marketing planning. Various pedagogical tools including cases, readings, and a major project will be deployed to achieve the course goals. Students will develop an actual marketing plan for a product, service, or idea using the concepts and techniques studied throughout their major program.

61.120

ADMINISTRATION

Courses

ADMI 201 *Introduction to Administration (Administered by the Finance Department)*
(3 credits)

This course is intended to develop a basic understanding of the role of administration in our society. The course includes a survey of different forms of organizations, their social and legal responsibilities, and how they function to achieve their goals.

NOTE: JMSB students may not take this course for credit.

NOTE: This course does not count towards the requirements for the Minor in Business Studies.

ADMI 202 *Perspective on Business (Administered by the Finance Department)* (3 credits)

This course is designed to review the historical development of business (in Canada in particular) and to examine the relationships between the firm (management) and the owners, the employees, the customers, the government, and the community. Further, it studies some of the problems facing Canadian business today: the dehumanizing aspect, pollution problems, large vs. small firms, foreign ownership, competition, etc.

NOTE: JMSB students may not take this course for credit.

NOTE: This course does not count towards the requirements for the Minor in Business Studies.

61.140

PROGRAM OPTIONS FOR NON-BUSINESS STUDENTS

Courses Offered to Non-Business Students

Students enrolled in programs outside the John Molson School of Business may register for a maximum of six credits per term, up to a maximum of 30 credits offered by the School of Business. Students not registered in the John Molson School of Business, who wish to register in any courses offered by the School, but do not have the stated prerequisites, must obtain permission in writing from the Student Request Committee of the John Molson School of Business *prior to registration*. The Office of the Associate Dean reserves the right to deregister those students who do not adhere to academic regulations.

CERTIFICATE IN BUSINESS STUDIES

This program is not open to students registered in a program leading to an undergraduate degree. Students may transfer into the Certificate program up to 12 credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

- a) Diploma of Collegial Studies or the equivalent; MATH 208, 209; ECON 201, 203; DESC 200
or
- b) Mature students: MATH 208, 209; ECON 201, 203; DESC 200.

Program

30 Certificate in Business Studies

- 24 COMM 210, 212, 215, 217, 220, 222, 224, 225
- 6 additional credits from the John Molson School of Business chosen in consultation with an academic advisor.

MINOR IN BUSINESS STUDIES

This program is not open to students registered in a program leading to an undergraduate degree in the John Molson School of Business.

NOTE: A GPA of 2.50 is required for entrance into this Minor.

Admission Requirements

MATH 208, 209; ECON 201, 203; DESC 200.

Program

30 Minor in Business Studies

- 24 COMM 210, 212, 215, 217, 220, 222, 224, 225
- 6 additional credits from the John Molson School of Business chosen in consultation with an academic advisor.

Program

MARKETING ELECTIVE GROUP FOR NON-BUSINESS STUDENTS

This 15-credit elective group is available to students registered in undergraduate programs outside the John Molson School of Business. Students choosing this elective group have the opportunity to add a business-oriented marketing component to their arts, science, engineering, or fine arts degrees.

15 Marketing Elective Group for Non-Business Students

- 9 MARK 201, 402, 405
- 6 Additional credits from MARK 453, 454, 455, 460, 463, 480, 485, 486

NOTE: Since non-Business students can only register for a maximum of 30 credits within the John Molson School of Business, students registered in the Minor in Business Studies, the BCompSc Information Systems Option, or the BSc Specialization in Physics/Marketing cannot register for the Marketing elective group.

Program

THE BASICS OF BUSINESS ELECTIVE GROUP

This interdisciplinary elective group is designed for non-business students seeking insight into the exciting world of business.

15 The Basics of Business Elective Group

- 15 Chosen from ACCO 230, 240; ADMI 201, 202; COMM 215, 499F (Personal Finance); MANA 211, 213, 266; MARK 201

NOTE: This elective group is not open to BComm/BAdmin students. Not all elective-group credits

are transferable to the BComm/BAdmin program.

NOTE: Since non-Business students can only register for a maximum of 30 credits within the John Molson School of Business, students registered in the Minor in Business Studies, the BCompSc Information Systems Option, or the BSc Specialization in Physics/Marketing cannot register for the Basics of Business elective group.

61.150 COMPUTER SCIENCE

For a Major in Management Information Systems see §61.50

61.160 SPECIAL CERTIFICATE PROGRAMS

There are many organizations within the business community designed to serve the needs of people working in specialized areas of business. These organizations recognize that the educational qualifications of those seeking membership must be continually upgraded. Therefore, they sponsor an Academic Certificate which may be obtained through correspondence courses, or through a lecture program.

The John Molson School of Business cooperates with these business organizations by permitting personnel to register as Visiting students, and to take courses leading to a certificate to be awarded by the organization concerned.

Students must comply with the University regulations regarding dates of application and Visiting Commerce student entrance requirements as outlined in the Academic Calendar §11. In addition, they must meet the requirements of the specific organization.

The credit courses taken may be applied towards the BComm degree, provided the student meets the admission requirements and wishes to transfer from Visiting Commerce status to undergraduate status after completing a Certificate program. Students are advised that they must meet the BComm curriculum requirements in force at the date of transfer.

Each Certificate program has one or more special courses required to complete the program. These courses do not carry credit towards an undergraduate degree and are designated as non-credit courses.

Students interested in the following Certificate programs may obtain details of required courses from the organization concerned:

- The American Marketing Association (Montreal Chapter)
- Institute of Canadian Bankers
- The Insurance Institute of Canada
- The Trust Companies Institute of Canada
- Professional Secretaries International (CPS)
- Canadian Institute of Management

61.170 SPECIAL PROGRAMS IN ACCOUNTANCY

CERTIFICATE IN ACCOUNTANCY

This program is not open to students registered in a program leading to an undergraduate degree.

Students may transfer into the Certificate program up to 12 credits earned in an incomplete degree or Certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

- a) DEC or the equivalent
- b) MATH 208, 209; ECON 201, 203; DESC 200; COMM 217, 305

Program

30 Certificate in Accountancy

18 ACCO 310, 320, 330, 340, 420, 450

12 additional credits from the John Molson School of Business that are needed to satisfy the requirements of either the CA, CGA, or CMA designations.

The three professional accounting organizations listed below recognize certain Concordia University courses for course exemptions or standing in their professional designation programs.

L'ORDRE DES COMPTABLES AGRÉÉS DU QUÉBEC: Chartered Accountant (CA)

The John Molson School of Business offers a Diploma in Chartered Accountancy which has been accredited by the Order of Chartered Accountants of Quebec. Entry into the program normally requires an undergraduate degree in Commerce, and a Major in Accountancy with high academic standing. Applicants lacking an appropriate pattern of undergraduate work will be required to successfully

complete certain qualifying courses, as assigned by the director of the program and the Order of Chartered Accountants of Quebec. For further details, refer to the Graduate Calendar of Concordia's School of Graduate Studies.

L'ORDRE DES COMPTABLES EN MANAGEMENT ACCRÉDITÉS DU QUÉBEC:

Certified Management Accountant (CMA)

Students who wish to follow the CMA program must register with L'Ordre des comptables en management accrédités du Québec, 715 Square Victoria 3rd Floor, Montreal, Quebec, H2Y 2H7, 514-849-1155 / 800-263-5390. The list of courses comprising the CMA program is shown below:

ECON 201 or Cegep equivalent*	Introduction to Microeconomics
ECON 203 or Cegep equivalent*	Introduction to Macroeconomics
COMM 210	Contemporary Business Thinking
COMM 212	Business Communication
COMM 215	Business Statistics
COMM 217	Financial Accounting
COMM 220	Analysis of Markets
COMM 222	Organizational Behaviour and Theory
COMM 224	Marketing Management
COMM 225	Production and Operations Management
COMM 301	Management Information Systems
COMM 305	Managerial Accounting
COMM 308	Introduction to Finance
COMM 315	Business Law and Ethics
COMM 320	Entrepreneurship
COMM 401	Strategy and Competition
ACCO 310	Intermediate Accounting I
ACCO 320	Intermediate Accounting II
ACCO 330	Cost and Management Accounting
ACCO 340	Income Taxation in Canada
ACCO 350	Accounting Information Systems
ACCO 400	Accounting Theory
ACCO 410	Governmental and Not-for-Profit Accounting
ACCO 420	Advanced Financial Accounting
ACCO 430	Advanced Management Accounting
ACCO 450	Financial Auditing
ACCO 470A	Special Topics in Accounting: Management Accounting
IBUS 462 or MARK 462	Environment of World Business

*Students who have not taken the equivalent of ECON 201 and 203 at the Cegep level must take these two courses as restricted electives.

NOTES:

1. This equivalence table is subject to amendment by the Ordre.
2. Students taking University courses must satisfy the necessary prerequisite courses.
3. The Entrance Examination of the Society of Management Accountants of Canada is mandatory. Coaching seminars for these courses are encouraged prior to writing the Entrance Examination. A student may not sit for this examination until all other Corporation courses or their equivalents have been successfully completed.
4. Prospective CMA students should note that the above sequence of courses is a prerequisite to the CMA program, which commences with an Entrance Examination (held in June each year). It is necessary to sit the Entrance Examination in order to take part in a 24-month Strategic Leadership Program. The Program consists of work experience, independent study, group and residential sessions. All candidates for the Entrance Examination must be registered student members of the Ordre.

L'ORDRE DES CGA DU QUÉBEC: Certified General Accountant (CGA)

Students who wish to follow the CGA program must register with L'Ordre des CGA du Québec located at 445 boulevard St-Laurent Bureau 450, Montreal, Quebec, H2Y 2Y7, 514-861-1823, website: www.cga-quebec.org.

The list of courses comprising the CGA Academic Program is shown below:

ECON 201 or Cegep equivalent*	Introduction to Microeconomics
ECON 203 or Cegep equivalent*	Introduction to Macroeconomics
COMM 215	Business Statistics
COMM 217	Financial Accounting

COMM 220 (3) (6)	Analysis of Markets
COMM 301	Management Information Systems
COMM 305	Managerial Accounting
COMM 308 (3) (6)	Introduction to Finance
COMM 315	Business Law and Ethics
COMM 401	Strategy and Competition
ACCO 310	Intermediate Accounting I
ACCO 320	Intermediate Accounting II
ACCO 330	Cost and Management Accounting
ACCO 340 (4) (6)	Income Taxation in Canada
ACCO 350	Accounting Information Systems
ACCO 400 (1) (6)	Accounting Theory
ACCO 410 (1) (6)	Governmental and Not-for-Profit Accounting
ACCO 420 (1) (6)	Advanced Financial Accounting
ACCO 440 (4) (6)	Advanced Taxation
ACCO 450 (2) (5) (6)	Financial Auditing
ACCO 460 (5)	Operational Auditing
ACCO 470D (2)	Special Topics in Accounting (Advanced Auditing)
ACCO 490 (4)	Seminar in Taxation

*Students who have not taken the equivalent of ECON 201 and 203 at the Cegep level must take these two courses as restricted electives.

(1) Prerequisite to the Financial Accounting (FA4) examination

(2) Prerequisite to the Auditing 2 (AU2) examination

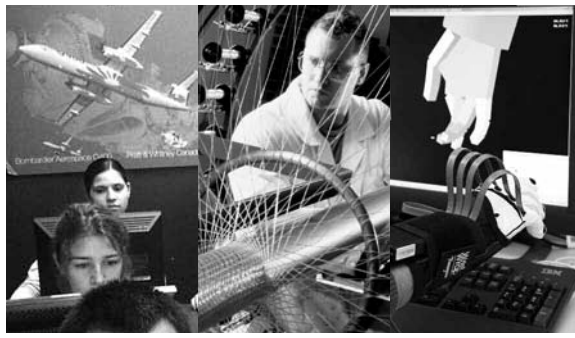
(3) Prerequisite to the Finance 2 (FN2) examination and professional certification program in Financial Performance

(4) Prerequisite to the Taxation 2 (TX2) examination

(5) Prerequisite to the Management Auditing 1 (MU1) examination

(6) Prerequisite to Professional Applications (PA-1) examination

NOTE: The listing above is subject to amendment. Please communicate with the CGA – Québec Ordre.



faculty of engineering and computer science

71.10 FACULTY OF ENGINEERING AND COMPUTER SCIENCE

- 71.10.1** Programs Offered
- 71.10.2** Admission Requirements
- 71.10.3** Academic Regulations
- 71.10.4** Registration Regulations
- 71.10.5** Graduation Regulations
- 71.10.6** Availability of Programs
- 71.10.7** Curriculum Requirements and Course Sequences
- 71.10.8** The Co-operative Format
- 71.10.9** Concordia Institute for Aerospace Design and Innovation (CIADI)

71.20 BENG

- 71.20.1** Curriculum for the Degree of BEng
- 71.20.2** Extended Credit Program
- 71.20.3** Accreditation by the Canadian Council of Professional Engineers
- 71.20.4** Membership in the *Ordre des ingénieurs du Québec*
- 71.20.5** Degree Requirements
- 71.20.6** Complementary Studies
- 71.20.7** Writing Skills Requirement
- 71.20.8** Industrial Experience and Reflective Learning Courses

71.30 DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

- 71.30.1** Course Requirements (BEng in Electrical Engineering)
- 71.30.2** Course Requirements (BEng in Computer Engineering)

71.40 DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

- 71.40.1** Course Requirements (BEng in Mechanical Engineering)
- 71.40.2** Course Requirements (BEng in Industrial Engineering)

71.50 DEPARTMENT OF BUILDING, CIVIL AND ENVIRONMENTAL ENGINEERING

- 71.50.1** Course Requirements (BEng in Building Engineering)
- 71.50.2** Course Requirements (BEng in Civil Engineering)

71.60 ENGINEERING COURSE DESCRIPTIONS

71.70 DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

- 71.70.1** Curriculum for the Degree of BCompSc
- 71.70.2** Degree Requirements
- 71.70.3** Extended Credit Program
- 71.70.4** Honours Program
- 71.70.5** Minor in Computer Science
- 71.70.6** Programs Related to Computer Science
- 71.70.7** Industrial Experience and Reflective Learning Courses
- 71.70.8** Curriculum for the Degree of BEng in Software Engineering
- 71.70.9** Degree Requirements for the BEng in Software Engineering
- 71.70.10** Course Descriptions

71.80 COMPUTATION ARTS AND COMPUTER SCIENCE

71.85 MATHEMATICS AND STATISTICS AND COMPUTER APPLICATIONS

71.90 GENERAL STUDIES UNIT

71.100 CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS ENGINEERING

section 71



71 FACULTY OF ENGINEERING AND COMPUTER SCIENCE

Dean

M. NABIL ESMAIL

Associate Dean, Undergraduate Programs and Student Academic Services

WILLIAM E. LYNCH

Associate Dean, Graduate Programs and Research

RAMA B. BHAT

Associate Dean, Special Projects

TERRILL FANCOTT

Associate Dean, External Affairs

LOUISE QUESNEL

Associate Dean, Information Technology

RACHIDA DSSOULI

Chair, Department of Electrical and Computer Engineering

CHRISTOPHER W. TRUEMAN

Chair, Department of Mechanical and Industrial Engineering

MARTIN D. PUGH

Chair, Department of Building, Civil and Environmental Engineering

SABAH T. ALKASS

Chair, Department of Computer Science and Software Engineering

SUDHIR MUDUR

Acting Director, Concordia Institute for Information Systems Engineering

MOURAD DEBBABI

Chair, General Studies Unit

THIRUVENGADAM RADHAKRISHNAN

Location

Sir George Williams Campus

Engineering, Computer Science and Visual Arts Complex, Room: EV 002.139; 514-848-2424 ext. 3109
Student Academic Services, Room: EV 002.125; 514-848-2424 ext. 3055

Objectives

By dedicating itself to program excellence, the Faculty seeks to prepare its graduates not only to practice their professions well into the twenty-first century but also to participate, in national and international affairs, as good citizens with a social conscience. It is equally dedicated to the advancement of knowledge through research and graduate education, and to the development of the professions of engineering and computer science. The Faculty strives to provide an environment of equal opportunity, collegiality, and lively intellectual debate for all members of its community.

71.10 FACULTY OF ENGINEERING AND COMPUTER SCIENCE

71.10.1

Programs Offered

The following programs are offered in the Faculty of Engineering and Computer Science:

1. BEng degrees in Building, Civil, Computer, Electrical, Industrial, Mechanical, and Software Engineering.
2. BCompSc degree.
3. Minor in Computer Science.

The requirements for the programs are different, and the appropriate section in the following pages must be consulted for each.

71.10.2

Admission Requirements

General admission requirements are listed in §13

In addition, the following specific requirements exist for the various programs. Applicants should specify their choice of program on their application.

Students entering the Faculty of Engineering and Computer Science are presumed to have acquired some familiarity with computers and programming, either through a course or through time spent working with a personal or other computer.

APPLICANTS FROM QUEBEC INSTITUTIONS

Successful completion of a two-year pre-university Cegep program is required, including the specific courses in the appropriate profile, as follows:

1. **BEng (all programs)**
BCompSc (Computer Systems)

Cegep Profile

Mathematics 201 —
103 or NYA, 105 or NYC, 203 or NYB
Physics 203 —
101 or NYA, 201 or NYB
Chemistry 202 —
101 or NYA

2. **BCompSc (Information Systems, Software Systems, and Computer Applications Options; and Minor in Computer Science)**

Cegep Profile 10.12

Mathematics 201 —
103 or NYA, 105 or NYC, 203 or NYB

Applications from graduates of Cegep technology programs will also be considered. Program requirements for successful applicants will be determined on an individual basis.

APPLICANTS FROM OUTSIDE QUEBEC

Academic qualifications presented by students applying from institutions outside Quebec should be comparable to those expected of students applying from within Quebec.

Where the pre-university education is shorter than in Quebec, students may be considered for admission to the first year of the Extended Credit Program. (See §13.3.2 to 13.3.6, §71.20.2, and 71.70.3)

MATURE ENTRY

Admission requirements are listed in §14.

Students should refer to the Academic Regulations of the University in §16.

71.10.3

Academic Regulations

Definitions

Assessable courses: *all record entries of courses* listed in this Concordia Calendar for which a grade point value is specified in §16.3.3. However, any course which is a requirement for admission to a program offered by the Faculty of Engineering and Computer Science will not be counted unless specifically listed on the student's admission letter.

Dean's Office: appropriate member of the Dean's Office, normally the Associate Dean, Undergraduate Programs and Student Academic Services.

Program of Study: course requirements in effect at the time of the latest admission or readmission to a program, for example, BEng (Civil) or BCompSc (Information Systems), including modifications on an individual basis as specified or approved in writing by the Dean's Office, or the Student Request Committee of Faculty Council.

Grade Points: as defined in §16.3.3 of this Calendar.

Weighted Grade Point Average (WGPA): as defined in §16.3.11 of this Calendar.

Academic year: a period which begins with a Summer Session followed by a Regular Session (Fall and Winter).

Objectives

The objectives of these regulations are:

- a) to ensure that the Faculty can certify that all of its graduates are qualified to enter their profession, and
- b) to ensure that students can, with the assistance or intervention of the Faculty, assess themselves objectively and plan programs of study designed to meet their individual needs.

Grading System

See §16.3.3 for the Concordia grading system.

NOTE: Although a "C-" grade is designated as Satisfactory, a weighted grade point average of 2.00 is required for acceptable standing in the Faculty of Engineering and Computer Science.

Regulations

1. Students' standings are assessed at the end of each academic year providing they have registered for at least 12 credits subsequent to their previous assessment, or in the case of a first assessment, subsequent to their admission to a program of study.
Standings of students who have attempted less than 12 credits since their last assessment are assessed as follows:

- a) The standings of potential graduates are determined on the basis that these credits constitute an extension of the last assessment period.
- b) The standings of other students are determined at the end of the academic year in which they have attempted a total of at least 12 credits since their last assessment.
2. Students' standings are determined according to the following criteria.

Acceptable Standing:

A WGPA of at least 2.00 for the assessment period.

Students in acceptable standing may proceed subject to the following conditions: any failing grade must be cleared by repeating and passing the failed course; or in the case of an elective, by replacing the failed course by an alternative within the same group of electives and passing this course. Any variation must be approved by the Dean's Office.

Conditional Standing:

A WGPA of at least 1.50 but less than 2.00 for the assessment period.

Students in conditional standing may proceed subject to the following conditions.

- a) They must successfully repeat all courses in which failing grades were obtained, or replace them by alternatives approved by the appropriate member of the Dean's Office in consultation with the student's Department.
- b) They must repeat or replace by approved alternatives at least one-half of those courses in which they obtained grades in the "D" range. The specific courses to be repeated will be determined by the Dean's Office in consultation with the student's Department.
- c) Courses to be taken may be specified by the Dean's Office. In no case will the number exceed five per term for full-time students and two per term for part-time students.
- d) They must obtain acceptable standing at the time of their next assessment.

Failed Standing:

Failure to meet the criteria for acceptable or conditional standing, or remaining in conditional standing over two consecutive assessments.

Failed students may apply for readmission through the Dean's Office – Student Academic Services.

If readmitted, they will be placed on academic probation. The Application for Readmission form is available in the Student Academic Services Office or can be obtained from the Student Academic Services website located at: www.enccs.concordia.ca.

Failed students should consider the following deadline when they submit their application. Full consideration will be given to all applications that have been received by the Student Academic Services Office before July 15 of each year. Every attempt will be made to inform students regarding the status of their application by August 1 of each year.

Students who are in failed standing and have been absent from their program for 30 consecutive months should refer to §71.10.4 since a new application for admission is required.

No students will be readmitted in the January or Summer Sessions.

Readmitted students are subject to the following regulations:

- a) They must successfully repeat all courses in which failing grades were obtained, or replace them by alternative courses approved by the appropriate member of the Dean's Office in consultation with the relevant department.
- b) They must repeat or replace, by approved alternatives, all of the courses in which they obtained grades in the "D" range for the academic year in which they were assessed as failed, and any previous outstanding repeats. The specific courses to be repeated will be determined by the Dean's Office.
- c) They must successfully complete all courses they are required to repeat prior to further registration in other courses.
- d) They must return to acceptable standing at the time of their next assessment.
- e) Other conditions may be applied as deemed appropriate by the Dean's Office.

Availability of Supplemental Examinations

Supplemental examinations are not offered in the Faculty of Engineering and Computer Science other than in the courses COMP 201 and COMP 218.

**71.10.4
Registration
Regulations**

1. Students in the Faculty of Engineering and Computer Science who have been absent from their program for six consecutive terms or more will be officially withdrawn from their program by the Faculty and must submit a new application for admission through the Office of the Registrar.
2. The maximum regular session course load for full-time students in the regular programs is three more than one-third of the total credits for their particular option as specified in subsequent sections.
3. The maximum regular session course load for full-time students in the Extended Credit and Mature Student programs is 30 credits until they have completed all the courses required beyond those specified for their particular option in subsequent sections.

4. The fall- and winter-term course loads of full-time students may be unbalanced by up to three credits without permission; further differences between the two terms require the permission of the Dean's Office.
5. Except for students registered for the co-operative format, the maximum load in a Summer Session is eight credits, with no more than four and a half credits in either of its terms.

71.10.5
Graduation
Regulations

Students must satisfy all program requirements and be in acceptable standing. The standings of potential graduates who have attempted less than 12 credits since their last assessment are determined on the basis that these credits constitute an extension of the last assessment period. Students who fail to meet acceptable standing but meet conditional standing will have the following options:

- a) register for 12 credits and meet the criteria for acceptable standing;
- b) register for fewer than 12 credits. In this case, standing will be determined on the basis that these credits constitute an extension of the last assessment period.

The maximum number of credits obtained as an Independent student which may be transferred into programs offered by the Faculty of Engineering and Computer Science is as follows:

BEng and BCompSc: 30

71.10.6
Availability of
Programs

Full-time students in the Engineering program normally follow an eight-term sequence. In general, introductory level courses are offered in both day and evening. Subject to the Registration Regulations in §71.10.4 above, a student may register on a part-time basis. Further information on sequencing may be found in the Undergraduate Program Guide issued by the Dean's Office.

71.10.7
Curriculum
Requirements and
Course Sequences

All students in Engineering programs are required to meet the Canadian Engineering Accreditation Board (CEAB) standards. Students are required to graduate having met the substantial equivalent of the curriculum in force in the Winter Term prior to degree conferral. It is the student's responsibility to ensure that their course selection meets the program requirements for their graduation. To accommodate this requirement, students are provided with course equivalencies and course sequences on the Student Academic Services website at <http://www.encs.concordia.ca/scs/index.htm>. Engineering students should follow the outlined cohort sequence for their program. Failure to do so may result in scheduling problems, the unavailability of courses, or ultimately an extension in the time period to complete their program.

71.10.8
The Co-operative
Format

A limited number of high ranking students entering the first year of the regular program leading to the BCompSc degree and the BEng degree are permitted to undertake their studies in the co-operative format in conjunction with the Institute for Co-operative Education. See §24.

The academic content is identical to that of the regular programs; however, in order to continue their studies in the co-operative format in the Faculty of Engineering and Computer Science, or to graduate from one of its programs as Members of the Institute for Co-operative Education, students must satisfy the following conditions:

- (i) maintain an annual grade point average (WGPA)* of at least 2.70 in their program after their first year of study with no single term below 2.50;
- (ii) be assigned a grade of pass or pass with distinction for each of the three work-term courses (CWTE or CWTC). Under certain conditions, a student may be placed on co-op probation status. For details, refer to §24;
- (iii) remain in their designated work-study sequence. Any deviations must have prior approval by the director of the Institute for Co-operative Education in consultation with Student Academic Services. For additional information, please refer to §24.

*The WGPA is calculated over all courses in the program in the manner described in §16.3.11.

Regulations for Work Terms

1. Successful completion of the work terms shown in the Co-op Schedule indicated in §24 is a prerequisite for graduation as a member of the Institute for Co-operative Education.
2. Work-term job descriptions are screened by the co-op coordinator. Only jobs approved by the Institute for Co-operative Education will be accepted as being suitable for the work-term requirements.
3. Work-term jobs are full-time employment normally for a minimum of 12 consecutive weeks (14 to 16 weeks preferably).
4. A work-term report must be submitted each work term on a subject related to the student's employment. This report must be submitted to the Institute for Co-operative Education on or before the deadline shown in §24. Grammar and content of work-term reports are evaluated by the Institute for Co-operative Education and the technical aspects are evaluated by the co-op

- program director responsible. Evidence of the student's ability to gather material relating to the job, analyse it effectively, and present it in a clear, logical, and concise form is required in the report.
5. The required communication component consists of an oral presentation on a technical subject or engineering task taken from the student's work environment. The presentation will be given on campus in a formal setting after students have returned to their study term. A written summary is also required. Guidelines for the preparation of this oral presentation are provided in the Co-op Student Handbook.
 6. Work terms will be evaluated for satisfactory completion. Assessment is based upon the employer evaluation of performance, the work-term report and communication component which together constitute the job performance as related to the whole work term. Students must pass all required components. The grade of pass with distinction, pass, or failure will be assigned to each of the work-term courses. A failing grade will result in the student's withdrawal from the Institute for Co-operative Education.

71.10.9
*Concordia Institute for
 Aerospace Design and
 Innovation (CIADI)*

The Concordia Institute for Aerospace Design and Innovation (CIADI) promotes awareness and provides leading-edge know-how among Engineering students and practising engineers in design and innovation, particularly in the field of aerospace, with emphasis on its multidisciplinary nature. While some members of the Institute may enter their field upon completion of their degree, the initiation into research provided to CIADI members is helpful to students who wish to pursue graduate studies in the field of aerospace.

Membership

Students accepted to the Institute are selected from among the top second- and third-year undergraduate students in the Faculty of Engineering and Computer Science, and work on collaborative design and research projects over several semesters of Engineering studies. Students are supervised by Concordia faculty members and receive mentoring from industry representatives working in the field. Eligible projects are credited by the Faculty as capstone design projects.

Registration

Students accepted to the Institute are required to register in two zero-credit courses, IADI 301 and 401, at the beginning of each respective calendar year in order to remain affiliated with the Institute. A pass with distinction, pass, or fail grade is awarded for these courses. Students who receive a pass with distinction grade in the first course IADI 301 may continue in the Institute for a second year. Students who successfully complete both the first- and second-year courses IADI 301 and 401 will be recognized as full members of the Institute and this recognition will appear on their University transcript and diploma. Students who receive a failing grade in their first course IADI 301 will not be allowed to continue with CIADI and shall receive no acknowledgement of this activity on their transcript. Students who receive a pass grade in their first course IADI 301 will be withdrawn from CIADI, but shall receive an acknowledgement of this course on their transcript.

71.20 BENG

71.20.1
*Curriculum for the
 Degree of BEng*

The University offers programs leading to the degree of BEng in the fields of Building, Civil, Computer, Electrical, Industrial, Mechanical, and Software Engineering. Students enrolled in the BEng program in Building Engineering may, after the completion of all but one of their 200- and 300-level courses, apply through the Dean's Office to enter a combined degree program leading to the joint award of an undergraduate and a graduate degree in this field.

The BEng degree requires completion of a minimum of 120 credits. Program requirements comprise a group of required courses with a group of elective courses which allow students to select part of their program to provide some depth in an area of specialization (their "Option") according to their particular interests, or breadth in the general field of their chosen discipline.

Students must have completed all 200-level courses required for their program before they can register for any 400-level courses.

Students in Engineering programs may not combine their program with a Minor or Cluster from another field of study. Any exception to this policy must be approved by the Faculty's Student Request Committee.

In their final undergraduate year, students with high standing may apply for permission through the Dean's Office to register for a limited number of graduate courses offered by the Faculty in lieu of some courses in the undergraduate program.

Successful completion of a BEng program requires hard work and considerable dedication on the part of each student. Courses are presented with the expectation of an average of about two hours of "outside" work for each lecture hour and about one-half hour of "outside" work for each hour spent in the laboratory for all programs of study.

71.20.2 Extended Credit Program	<p>Students admitted to an Extended Credit Program under the provisions of §13.3.2 or 13.8.1 must successfully complete the requirements of a specific program, as set out in §71.30 to 71.50, plus the following courses:</p> <p>MATH 202³, 203³, 204³, 205³ PHYS 204³, 205³ CHEM 205³</p> <p>Six credits chosen from courses in the humanities and social sciences. ESL courses and courses that focus on the acquisition of a language may not be used to meet this requirement. Students should refer to §71.20.6 when selecting these courses.</p>																																							
71.20.3 Accreditation by the Canadian Council of Professional Engineers	<p>All Engineering programs in the Faculty have been designed to meet the criteria of the Canadian Engineering Accreditation Board. These programs are assessed at regular intervals according to the rules and procedures of the Board. Graduates of accredited programs are qualified for membership in the <i>Ordre des ingénieurs du Québec</i>, or its equivalent in any other provincial jurisdiction.</p>																																							
71.20.4 Membership in the Ordre des ingénieurs du Québec	<p>The <i>Ordre des ingénieurs du Québec</i> (www.oiq.qc.ca) currently admits graduates of the BEng curricula in Building, Civil, Computer, Electrical, Industrial, Mechanical, and Software Engineering, as members. Quebec law requires that candidates seeking admission to provincially recognized Quebec professional corporations (such as the <i>Ordre des ingénieurs du Québec</i>) possess an appropriate knowledge of the French language.</p> <p>A person is deemed to have that knowledge who:</p> <ol style="list-style-type: none">(1) has taken at least three years of full-time instruction given in French at the secondary or post-secondary level;(2) has passed the French mother tongue examinations in the fourth or fifth grade of the secondary level;(3) has obtained in Quebec, a secondary school certificate for the 1985-86 school year or later. <p>In all other cases, a person must obtain a certificate delivered by the Office québécois de la langue française (www.olf.gouv.qc.ca) or hold a certificate defined as equivalent by regulation of the Government.</p>																																							
71.20.5 Degree Requirements	<p>To be recommended for the degree of BEng, students must satisfactorily complete the courses of the Engineering Core as well as those specified for their particular program in subsequent sections in accordance with the graduation requirements in §71.10.5.</p> <table><thead><tr><th colspan="2">Engineering Core</th><th>Credits</th></tr></thead><tbody><tr><td>ELEC 275</td><td>Principles of Electrical Engineering</td><td>3.50 (2)</td></tr><tr><td>ENCS 282</td><td>Technical Writing and Communication</td><td>3.00</td></tr><tr><td>ENGR 201</td><td>Professional Practice and Responsibility</td><td>1.50</td></tr><tr><td>ENGR 202</td><td>Sustainable Development and Environmental Stewardship</td><td>1.50 (1)</td></tr><tr><td>ENGR 213</td><td>Applied Ordinary Differential Equations</td><td>3.00</td></tr><tr><td>ENGR 233</td><td>Applied Advanced Calculus</td><td>3.00</td></tr><tr><td>ENGR 301</td><td>Engineering Management Principles and Economics</td><td>3.00</td></tr><tr><td>ENGR 371</td><td>Probability and Statistics in Engineering</td><td>3.00</td></tr><tr><td>ENGR 391</td><td>Numerical Methods in Engineering</td><td>3.00 (3)</td></tr><tr><td>ENGR 392</td><td>Impact of Technology on Society</td><td>3.00 (4)</td></tr><tr><td></td><td>General Education elective</td><td>3.00 (5)</td></tr><tr><td colspan="2"></td><td><hr/>30.50</td></tr></tbody></table> <p>NOTES:</p> <ol style="list-style-type: none">(1) The Engineering Core credits for students in the Building Engineering program are reduced from 30.5 credits to 29 credits since Building Engineering students are not required to take this course in their program.(2) Students in Electrical and Computer Engineering shall replace ELEC 275 with ELEC 273.(3) Students in Software Engineering may replace ENGR 391 with COMP 361 and must also take two Basic Science courses as indicated in §71.70.9 for a total of 36.5 credits.(4) Students in Building Engineering shall replace ENGR 392 with BLDG 482.(5) Students must select three General Education elective credits from one of the lists in §71.20.6. Students in Industrial Engineering shall take ACCO 220 as their General Education elective.	Engineering Core		Credits	ELEC 275	Principles of Electrical Engineering	3.50 (2)	ENCS 282	Technical Writing and Communication	3.00	ENGR 201	Professional Practice and Responsibility	1.50	ENGR 202	Sustainable Development and Environmental Stewardship	1.50 (1)	ENGR 213	Applied Ordinary Differential Equations	3.00	ENGR 233	Applied Advanced Calculus	3.00	ENGR 301	Engineering Management Principles and Economics	3.00	ENGR 371	Probability and Statistics in Engineering	3.00	ENGR 391	Numerical Methods in Engineering	3.00 (3)	ENGR 392	Impact of Technology on Society	3.00 (4)		General Education elective	3.00 (5)			<hr/> 30.50
Engineering Core		Credits																																						
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71.20.6 Complementary Studies	<p>All Engineering students must complete three credits of General Education. This course may be chosen from any of the three lists below.</p> <p>Students in the Extended Credit Program (ECP) (see §71.20.2) or the Mature Entry Program (MEP) (see §14.2.3) who have been assigned credits in Humanities and Social Sciences must select those credits from the Humanities list or the Social Sciences list only.</p>																																							

Social Sciences

AHSC 241	Recreation and Leisure in Contemporary Society
ANTH 202	Introduction to Culture
ECON 201	Introduction to Microeconomics
ECON 203	Introduction to Macroeconomics
EDUC 230	Introduction to Philosophy of Education
GEOG 203	Canadian Environmental Issues
GEOG 204	Global Environmental Issues
GEOG 210	Geography of Global Change
GEOG 220	The Human Environment: Place, Space, and Identity
INST 250	Introduction to Library Research Practices
LING 222	Language and Mind: The Chomskyan Program
LING 300	Sociolinguistics
POLI 202	Introduction to Political Science
POLI 213	Contemporary Issues in Global Politics
POLI 390	Ethics and Competing Political Perspectives
RELI 214	Religions of the West
RELI 215	Religions of Asia
RELI 216	Encountering Religions
RELI 218	Wisdom, Traditions, and Enlightenment
RELI 310	Self and Other: Exploring Value Choices in Personal and Interpersonal Relations
RELI 312	Justice and Social Conflict in a Globalized World
RELI 374	Religion and Science
SCPA 201	Introduction to Public Policy and the Public Interest
SCPA 215	Economics for Public Policy and Community Development
SOCI 203	Introduction to Society
WSDB 290	Introduction to Women's Studies I
WSDB 291	Introduction to Women's Studies II

Humanities

ARTH 353	Technology and Contemporary Art
ARTH 354	Studies in Interdisciplinarity in the Visual Arts
CLAS 266	An Introduction to Classical Archaeology
COMS 360	Mass Communication
ENGL 224	The Creative Process
ENGL 233	Critical Reading
FLIT 230	Introduction à la culture francophone
FLIT 240	Introduction à la littérature francophone
FMST 214	English-Canadian Film
FMST 215	Le cinéma québécois
HIST 201	Introduction to European History to 1789
HIST 202	Introduction to European History, from 1789 to the Present
HIST 205	History of Canada, Post-Confederation
HIST 281	Film in History
HIST 283	The Twentieth Century: A Global History
LBCL 201	Great Books: Western History and Thought from Antiquity through the Renaissance
LBCL 202	Great Books: Western Culture and Expression from Antiquity through the Renaissance
LBCL 203	Great Books: Western History and Thought from the Reformation through Modernity
LBCL 204	Great Books: Western Culture and Expression from the Reformation through Modernity
PHIL 201	Problems of Philosophy
PHIL 210	Critical Thinking
PHIL 232	Introduction to Ethics
PHIL 233	Applied Ethics: Moral Sensitivity and Human Well-Being
PHIL 235	Biomedical Ethics
PHIL 275	From Modern to Postmodern: Philosophical Thought and Cultural Critique
PHIL 330	Contemporary Ethical Theory
THEO 202	Introduction to Biblical Studies
THEO 204	Introduction to Christian Ethics
THEO 233	Religious Pluralism in a Secular Culture

Other Complementary Studies

ADMI 201	Introduction to Administration
ADMI 202	Perspective on Business

ENCS 382	Innovation and Critical Thinking in Science and Technology
MANA 213	Foundations of Behaviour
MANA 266	Foundations of Modern Management
MARK 201	Introduction to Marketing
URBS 230	Urban Development

Please note the following:

- 1) Prior to registering, students who do not have any specified prerequisites for a Complementary Studies course must obtain permission of the relevant department.
- 2) ESL courses or introductory courses that deal with the acquisition of a language will not be considered as Complementary Studies.
- 3) Should students wish to take a Complementary Studies course not listed above, they must receive written permission from the Student Academic Services Office of the Faculty of Engineering and Computer Science prior to taking the course.

71.20.7 *Writing Skills Requirement*

The Faculty of Engineering and Computer Science is committed to ensuring that its students possess good writing skills. Hence, every student in an undergraduate degree program is required to demonstrate competence in writing English or French prior to graduation.

All students admitted to the Faculty of Engineering and Computer Science as of September 2001 must meet the writing skills requirement outlined in §16.2.4. To do this, students can write the Engineering Writing Test, or take ENCS 272 and earn a grade of C- or better, or write the University Writing Test.

Newly admitted students are strongly encouraged to meet the requirement very early in their program (Fall Term of first year for students starting in September or Winter Term of first year for students starting in January) in order to avoid the risk of delayed graduation should remedial work prove necessary. The Engineering Writing Test is especially designed to address the writing skills typically demanded of engineers. Students who are required to take ESL courses should meet the writing skills requirements in the semester following completion of their ESL courses.

All ESL and English/French language courses taken to satisfy this requirement are in addition to Engineering program requirements.

71.20.8 *Industrial Experience and Reflective Learning Courses*

Students employed full-time in an engineering position during their non-study terms may have this Industrial Experience recorded on their record, provided they successfully complete the Reflective Learning course associated with this work term.

Industrial Experience work terms will be coded as ENGR 107, 207, and 307, and the associated Reflective Learning courses will be coded as ENGR 108, 208, and 308 respectively.

Students may only register for these courses with the permission of the Faculty.

The Industrial Experience terms ENGR 107, 207, and 307 carry no credit value and are used to indicate that the student is on an Industrial Experience term.

The ENGR 108, 208, and 308 Industrial Experience Reflective Learning courses are worth three credits and are marked on a pass/fail basis. They are above and beyond the credit requirements of the student's program and are not transferable nor are they included in the full- or part-time assessment status.

Students studying for a Co-op work term or CIADI term should not register for these Industrial Experience and Reflective Learning courses.

Faculty

*Chair*CHRISTOPHER W. TRUEMAN, *Professor*

YUSEF R. SHAYAN

CHUNYAN WANG

JOHN X. ZHANG

WEIPING ZHU

*Associate Chair*ROBERT PAKNYS, *Professor**Assistant Professors*

OTMANE AIT MOHAMED

GLENN COWAN

VIJAYA KUMAR DEVABHAKTUNI

ABDELWAHAB HAMOU-LHADJ

M. ZAHANGIR KABIR

DONGYU QIU

XIAOFENG WANG

SHELDON WILLIAMSON

Professors

M. OMAIR AHMAD

ASIM J. AL-KHALILI

AHMED K. ELHAKHEEM

FERHAT KHENDEK

KHASHAYAR KHORASANI

MUSTAFA K. MEHMET ALI

VENKATANARAYANA RAMACHANDRAN

ABDEL R. SEBAK

MOHAMMED REZA SOLEYMANI

SOFIÈNE TAHAR

Adjunct Professors

DHAMIN AL-KHALILI

KHALED BEN LETAIEF

CHRISTIAN S. GARGOUR

LESLIE M. LANDSBERGER

THO LE-NGOC

JENS LIENIG

H.C. LIU

BEHROOZ NOWROUZIAN

HARI REDDY

VIJAY SOOD

Research Professor

M.N.S. SWAMY

Distinguished Professors Emeriti

JEREMIAH F. HAYES

STANLEY J. KUBINA

Professors Emeriti

J. CHARLES GIGUÈRE

EUGENE I. PLOTKIN

OTTO SCHWELB

Adjunct Associate Professors

RAJEEV AGARWAL

TAYEB A. DENIDNI

ZHENGUO LU

RONGGANG QI

SHAUNA L. RICKER

MARIA TOEROE

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Associate Professors

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AMIR G. AGHDAM

AISHY AMER

ABDESLAM EN-NOUAARY

ALI GHAYEB

PEYMAN GOHARI-MOGHADAM

WALAA HAMOUDA

SHAHIN HASHTRUDI ZAD

MOJTABA KAHRIZI

NAWWAF N. KHARMA

LUIZA A. LOPES

WILLIAM E. LYNCH

RABIN RAUT

SAED SAMADI

Adjunct Assistant Professors

NADER ALAGHA

MOHAMMAD REZA CHACHARMIR

AFSHIN HAGHIGHAT

SADEGH JAHANPOUR

MANIJEH KHATAIE

SHAUNA LAURENE RICKER

SIAMAK TAFAZOLI

Location

Sir George Williams Campus

Engineering, Computer Science and Visual Arts Complex, Room: EV 005.139

514-848-2424 ext. 3100

Department
Objectives

Electrical Engineering is concerned primarily with energy and information, their conversion and transmission in the most efficient and reliable manner. This vast field of endeavour includes many specialties and Electrical Engineers may be involved in one or more of these throughout their careers. A partial list includes: electronics, integrated circuit design, very large scale integrated (VLSI) circuit design, layout and testing, controls, robotics, system simulation, telecommunications, signal processing, computer hardware design, software design, power devices, power and control systems, electromechanical systems, microelectromechanical devices, electromagnetics, antennas, wave guides, lasers, and optoelectronics.

Computer Engineering is the driving force of the information revolution and its transformation of society. Over the course of their careers, computer engineers will be called upon to meet a number of challenges, most of which cannot be imagined today. A partial list of current specialties includes: computer architecture, digital electronics, digital circuits, very large scale integrated (VLSI) circuit design, layout and testing, digital circuit testing and reliability, software design, software engineering, digital communication and computer networks.

The four-year programs consist of the Engineering Core, taken by all engineering students, program cores and electives. The Electrical Engineering Core provides a solid introduction to all aspects of the discipline, to programming methodology and to the design of large software systems. Technical electives are scheduled to enable students to register for sets of related technical courses. Current sets of electives include: Communications and Signal Processing, Computer Systems, Electronics and VLSI, Power and Control Systems, and Waves and Electromagnetics. The Computer Engineering Core provides a thorough grounding in all aspects of computer hardware and software. Technical electives allow students to acquire further knowledge in various aspects of hardware or software. A mandatory final-year design project gives students in both programs the opportunity to apply the knowledge they have acquired to the design and testing of a working prototype.

Six Quebec universities have joined together with Hydro-Québec to create the Institute for Electrical Power Engineering whose primary mission is to meet the anticipated shortfall in this area. Students accepted by the Institute are expected to complete six courses offered by participating universities. Some of these courses are offered in English and others in French. Students register for courses at their home universities.

71.30.1
Course Requirements
(BEng in Electrical
Engineering)

The program in Electrical Engineering consists of the Engineering Core, the Electrical Engineering Core, and one of two options as set out below. The normal length of the program is 120 credits.

Engineering Core (30.5 credits)

See §71.20.5.

Electrical Engineering Core

Credits

COEN 231	Introduction to Discrete Mathematics	3.00
COEN 243	Programming Methodology I	3.00
COEN 244	Programming Methodology II	3.00
COEN 311	Computer Organization and Software	3.50
COEN 312	Digital Systems Design I	3.50
ELEC 251	Fundamentals of Applied Electromagnetics	3.00
ELEC 264	Signals and Systems I	3.00
ELEC 311	Electronics I	4.00
ELEC 321	Introduction to Semiconductor Materials and Devices	3.50
ELEC 331	Fundamentals of Electrical Power Engineering	3.50
ELEC 351	Electromagnetic Waves and Guiding Structures	3.00
ELEC 363	Fundamentals of Telecommunications Systems	3.50
ELEC 364	Signals and Systems II	3.00
ELEC 365	Complex Variables and Partial Differential Equations	3.00
ELEC 370	Modelling and Analysis of Physical Systems	3.50
ELEC 372	Fundamentals of Control Systems	3.50
ELEC 390	Electrical Engineering Team Design Project	3.00
ELEC 490	Capstone Electrical Engineering Design Project	4.00

59.50

Telecommunications Option

Credits

ELEC 462	Digital Communications	3.50
ELEC 463	Telecommunication Networks	3.00
	Minimum number of elective credits chosen from list below	23.50

30.00

COEN 320	Introduction to Real-Time Systems	3.00
COEN 346	Operating Systems	4.00
COEN 352	Data Structures and Algorithms	3.00
ELEC 425	Optical Devices for High-Speed Communications	3.50
ELEC 442	Digital Signal Processing	3.50
ELEC 453	Microwave Engineering	3.50

ELEC 456	Antennas	3.50
ELEC 457	Design of Wireless RF Systems	3.00
ELEC 464	Wireless Communications	3.00
ELEC 465	Networks Security and Management	3.50
ELEC 466	Introduction to Optical Communication Systems	3.50
ELEC 472	Advanced Telecommunication Networks	3.50
ELEC 498	Topics in Electrical Engineering	3.00
ENGR 411	Special Technical Report	1.00

Electronics/Systems Option*

Credits

COEN 315	Digital Electronics	3.50
ELEC 312	Electronics II	4.00
ELEC 442	Digital Signal Processing	3.50
	Minimum number of elective credits chosen from lists below	19.00
		<hr/> 30.00

*Note: Students accepted by the Institute for Electrical Power Engineering are expected to complete five courses as required by the Institute, and offered by participating universities, from among: ELEC 430, 431, 432, 433, 434, 435, 436, 438. Some of these courses are offered in French. Students register for courses at their home universities. Students accepted by the Institute must complete a minimum of 120 credits in total.

Electronics/Systems Electives

Courses are listed in groups to facilitate course selection.

Credits

ELEC 498	Topics in Electrical Engineering	3.00
ENGR 411	Special Technical Report	1.00

A. Communications and Signal Processing

Credits

ELEC 441	Modern Analog Filter Design	3.50
ELEC 462	Digital Communications	3.50
ELEC 463	Telecommunication Networks	3.00
ELEC 464	Wireless Communications	3.00
ELEC 465	Networks Security and Management	3.50
ELEC 472	Advanced Telecommunication Networks	3.50

B. Computer Systems

Credits

COEN 313	Digital Systems Design II	3.50
COEN 316	Computer Architecture and Design	3.00
COEN 320	Introduction to Real-Time Systems	3.00
COEN 345	Software Testing and Validation	4.00
COEN 346	Operating Systems	4.00
COEN 352	Data Structures and Algorithms	3.00
COEN 417	Microprocessor Systems	4.00
COEN 421	Embedded Systems and Software Design	4.00
COEN 432	Applied Genetic and Evolutionary Systems	3.00
SOEN 341	Software Process	3.00
SOEN 342	Software Requirements and Specifications	3.00
SOEN 343	Software Design	3.00

C. Electronics/VLSI

Credits

COEN 451	VLSI Circuit Design	4.00
ELEC 421	Solid State Devices	3.50
ELEC 422	Design of Integrated Circuit Components	3.50
ELEC 424	VLSI Process Technology	3.50
ELEC 425	Optical Devices for High-Speed Communications	3.50

D. Power and Control Systems

Credits

ELEC 430	Electrical Power Equipment*	3.50
ELEC 431	Electrical Power Systems	3.50

ELEC 432	Control of Electrical Power Conversion Systems*	3.50
ELEC 433	Power Electronics	3.50
ELEC 434	Behaviour of Power Systems*	3.50
ELEC 435	Electromechanical Energy Conversion Systems	3.50
ELEC 436	Protection of Power Systems*	3.50
ELEC 438	Industrial Electrical Systems*	3.50
ELEC 481	Linear Systems	3.50
ELEC 482	System Optimization	3.50
ELEC 483	Real-Time Computer Control Systems	3.50
ENGR 245	Mechanical Analysis	3.00
ENGR 472	Robot Manipulators	3.50

*Note: ELEC 430, 432, 434, 436, and 438 are usually offered in the French language.

E. Waves and Electromagnetics		Credits
ELEC 453	Microwave Engineering	3.50
ELEC 455	Acoustics	3.00
ELEC 456	Antennas	3.50
ELEC 457	Design of Wireless RF Systems	3.00
ELEC 458	Techniques in Electromagnetic Compatibility	3.00

71.30.2
Course Requirements
(BEng in Computer
Engineering)

The program in Computer Engineering consists of the Engineering Core, the Computer Engineering Core, and one of the two options as set out below. The normal length of the program is 120 credits.

Engineering Core: (30.5 credits)
See §71.20.5.

Computer Engineering Core		Credits
COEN 231	Introduction to Discrete Mathematics	3.00
COEN 243	Programming Methodology I	3.00
COEN 244	Programming Methodology II	3.00
COEN 311	Computer Organization and Software	3.50
COEN 312	Digital Systems Design I	3.50
COEN 346	Operating Systems	4.00
COEN 352	Data Structures and Algorithms	3.00
COEN 390	Computer Engineering Team Design Project	3.00
COEN 417	Microprocessor Systems	4.00
COEN 490	Capstone Computer Engineering Design Project	4.00
ELEC 264	Signals and Systems I	3.00
ELEC 311	Electronics I	4.00
ELEC 321	Introduction to Semiconductor Materials and Devices	3.50
ELEC 353	Transmission Line Circuits and Electromagnetic Waves	3.00
ELEC 364	Signals and Systems II	3.00
ELEC 370	Modelling and Analysis of Physical Systems	3.50
ELEC 372	Fundamentals of Control Systems	3.50
		57.50

System Hardware Option		Credits
COEN 313	Digital Systems Design II	3.50
COEN 315	Digital Electronics	3.50
COEN 316	Computer Architecture and Design	3.00
COEN 451	VLSI Circuit Design	4.00
	Electives chosen from the list below	18.00
		32.00

System Hardware Electives		Credits
COEN 320	Introduction to Real-Time Systems	3.00
COEN 345	Software Testing and Validation	4.00
COEN 421	Embedded Systems and Software Design	4.00
COEN 432	Applied Genetic and Evolutionary Systems	3.00
COEN 445	Communication Networks and Protocols	4.00

COEN 498	Topics in Computer Engineering	3.00
COMP 353	Databases	4.00
COMP 471	Computer Graphics	4.00
COMP 472	Artificial Intelligence	4.00
COMP 474	Introduction to Expert Systems	4.00
ELEC 312	Electronics II	4.00
ELEC 363	Fundamentals of Telecommunication Systems	3.50
ELEC 442	Digital Signal Processing	3.50
ELEC 462	Digital Communications	3.50
ELEC 465	Networks Security and Management	3.50
ELEC 472	Advanced Telecommunication Networks	3.50
ELEC 481	Linear Systems	3.50
ENGR 245	Mechanical Analysis	3.00
ENGR 411	Special Technical Report	1.00
ENGR 472	Robot Manipulators	3.50
SOEN 341	Software Process	3.00
SOEN 342	Software Requirements and Specifications	3.00
SOEN 343	Software Design	3.00
SOEN 344	Software Architecture	3.00

System Software Option

Credits

COEN 320	Introduction to Real-Time Systems	3.00
COEN 345	Software Testing and Validation	4.00
COEN 421	Embedded Systems and Software Design	4.00
COEN 445	Communication Networks and Protocols	4.00
SOEN 341	Software Process	3.00
	Electives chosen from the list below	14.00

32.00

System Software Electives

Credits

COEN 313	Digital Systems Design II	3.50
COEN 315	Digital Electronics	3.50
COEN 316	Computer Architecture and Design	3.00
COEN 432	Applied Genetic and Evolutionary Systems	3.00
COEN 498	Topics in Computer Engineering	3.00
COMP 335	Introduction to Theoretical Computer Science	3.00
COMP 353	Databases	4.00
COMP 442	Compiler Design	4.00
COMP 451	Database Design	4.00
COMP 465	Design and Analysis of Algorithms	3.00
COMP 471	Computer Graphics	4.00
COMP 472	Artificial Intelligence	4.00
COMP 474	Introduction to Expert Systems	4.00
ELEC 363	Fundamentals of Telecommunication Systems	3.50
ELEC 442	Digital Signal Processing	3.50
ELEC 465	Networks Security and Management	3.50
ELEC 472	Advanced Telecommunication Networks	3.50
ELEC 481	Linear Systems	3.50
ENGR 245	Mechanical Analysis	3.00
ENGR 411	Special Technical Report	1.00
ENGR 472	Robot Manipulators	3.50
SOEN 342	Software Requirements and Specifications	3.00
SOEN 343	Software Design	3.00
SOEN 344	Software Architecture	3.00
SOEN 357	User Interface Design	3.00
SOEN 431	Formal Methods	3.00
SOEN 448	Management of Evolving Systems	3.00
SOEN 449	Component Engineering	3.00
SOEN 475	Imaging and Visualization	3.00

71.40

DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Faculty

Chair

MARTIN D. PUGH, Associate Professor

Associate Chair

KUDRET DEMIRLI, Associate Professor

Professors

A.K. WAIZUDDIN AHMED

RAMA B. BHAT

MING YUAN CHEN

M. NABIL ESMAIL

RAJAMOHAN GANESAN

SUONG VAN HOA

SUBHASH RAKHEJA

ION STIHARU

CHUN YI SU

GEORGIOS H. VATISTAS

Distinguished Professors Emeriti

RICHARD M.H. CHENG

SUI LIN

HUGH J. MCQUEEN

MOHAMED O.M. OSMAN

Professor Emeritus

VOJISLAV N. LATINOVIC

Associate Professors

AKIF ASIL BULGAK

ZEZHONG CHEN

JAVAD DARGAHI

WAHID S. GHALY

BRANDON W. GORDON

GERARD J. GOUW

IBRAHIM G. HASSAN

HENRY HONG

MAMOUN MEDRAJ

MUTHUKUMARAN PACKIRISAMY

MARIUS PARASCHIVOIU

RAMIN SEDAGHATI

KAMRAN SIDDIQUI

PAULA WOOD-ADAMS

YOU MIN ZHANG

Associate Professors Emeriti

KALMAN I. KRAKOW

RAFIK A. NEEMEH

Assistant Professors

ALI AKGUNDUZ

NADIA BHUIYAN

ALI DOLATABADI

LYES KADEM

SIVAKUMAR R. NARAYANSWAMY

HOI DICK NG

LUIS RODRIGUES

ROLF WÜTHRICH

WENFANG XIE

Adjunct Professors

PAUL-ÉMILE BOILEAU

RAO V. DUKKIPATI

MOUSTAPHA EL-GINDY

VIRENDRA JHA

HANY MOUSTAPHA

MARC J. RICHARD

Adjunct Associate Professors

SÉRAFETTIN ENGIN

MAMDOUH GHANNAM

ELENA KONOPLEVA

NEZIH MRAD

YVAN SOUCY

ZHIGANG SUN

MINH TAN TON-THAT

Adjunct Assistant Professors

MEDHI HOJJATI

ASHOK KAUSHAL

PIERRE MARCOTTE

ALFRED CHUN-KI NG

CAMILLE RABBATH

XIAO WEI TU

Location

Sir George Williams Campus

Engineering, Computer Science and Visual Arts Complex, Room: EV 004.139

514-848-2424 ext. 3125

Department Objectives

The Department of Mechanical and Industrial Engineering offers two distinct undergraduate programs, one leading to the BEng in **Mechanical Engineering**, the other to the BEng in **Industrial Engineering**. Mechanical Engineering is concerned with all forms of power generation (hydro-electric, steam, internal combustion, nuclear, jet rocket, and fuel cells), the design of mechanisms and machines, transportation systems, controls and automation, vibration analysis, environmental control (heating, ventilation, and refrigeration), materials handling, and precision measurement. The Mechanical Engineering curriculum consists of a combination of core courses with a series of technical electives that allow students to obtain some specialization in a particular area of the field depending on their interests and expected future professional activity. Four options are available: Thermo Fluid and Propulsion Engineering; Design and Manufacturing Engineering; Mechatronics and Controls; and Aerospace and Vehicle Systems.

Industrial Engineering is concerned with the design, organization, analysis, and integration of people and industrial systems components in order to achieve or enhance effectiveness. These components include whole machines, transportation and conveyance elements, physical plant, organizational frameworks, schedules, and budgets. The Industrial Engineering curriculum is therefore designed to give students the background needed to define and solve problems related to the conception, improvement, integration, and implementation of industrial systems.

71.40.1
Course Requirements
(BEng in Mechanical
Engineering)

The program in Mechanical Engineering consists of the Engineering Core, the Mechanical Engineering Core, and option requirements as shown below. The minimum length of the program is 120 credits.

Engineering Core (30.5 credits)

See §71.20.5.

Mechanical Engineering Core		Credits
ENGR 242	Statics	3.00
ENGR 243	Dynamics	3.00
ENGR 244	Mechanics of Materials	3.75
ENGR 251	Thermodynamics I	3.00
ENGR 311	Transform Calculus and Partial Differential Equations	3.00
ENGR 361	Fluid Mechanics I	3.00
MECH 211	Mechanical Engineering Drawing	3.50
MECH 215	Programming for Mechanical and Industrial Engineers	3.50
MECH 221	Materials Science	3.00
MECH 311	Manufacturing Processes	3.75
MECH 313	Machine Drawing and Design	3.00
MECH 321	Properties and Failure of Materials	3.50
MECH 343	Theory of Machines I	3.50
MECH 344	Machine Element Design	3.00
MECH 351	Thermodynamics II	3.50
MECH 352	Heat Transfer I	3.50
MECH 361	Fluid Mechanics II	3.50
MECH 370	Modelling, Simulation and Control Systems	3.50
MECH 371	Analysis and Design of Control Systems	3.75
MECH 373	Instrumentation and Measurements	3.50
MECH 443	Mechanical Vibrations	3.50
MECH 490	Capstone Mechanical Engineering Design Project	4.00
		<hr/> 74.25

Option Requirements

Students in the Mechanical Engineering program must complete at least 15.25 elective credits from within one of options A, B, C, or D. Prior to registration for elective courses, students indicate their choice of option on a form available from the Department, which must be submitted to the Chair's office for approval *prior to March 30*.

1. Option A — Thermo Fluid and Propulsion

Students must complete a minimum of 15.25 credits from the following courses, including at least two of the courses marked *.

		Credits
ENGR 411	Special Technical Report	1.00
MECH 415	Advanced Programming for Mechanical and Industrial Engineers	3.00
MECH 452*	Heat Transfer II	3.50
MECH 453	Heating, Ventilation and Air Conditioning Systems	3.00
MECH 454	Vehicular Internal Combustion Engines	3.00
MECH 460	Finite Element Analysis	3.75
MECH 461*	Gas Dynamics	3.50
MECH 462*	Turbomachinery and Propulsion	3.00
MECH 463	Fluid Power Control	3.50
MECH 464	Aerodynamics	3.00
MECH 465	Gas Turbine Design	3.50
MECH 498	Topics in Mechanical Engineering	3.00

2. Option B — Design and Manufacturing

Students must complete a minimum of 15.25 credits from the following courses, including MECH 412.

		<i>Credits</i>
ENGR 411	Special Technical Report	1.00
INDU 372	Quality Control and Reliability	3.00
INDU 411	Computer Integrated Manufacturing	3.50
INDU 440	Product Design and Development	3.00
MECH 412*	Computer-Aided Mechanical Design	3.50
MECH 413	Theory of Machines II	3.50
MECH 415	Advanced Programming for Mechanical and Industrial Engineers	3.00
MECH 421	Mechanical Shaping of Metals and Plastics	3.50
MECH 422	Mechanical Behaviour of Polymer Composite Materials	3.00
MECH 423	Casting, Welding, Heat Treating, and Non-Destructive Testing	3.50
MECH 424	MEMS — Design and Fabrication	3.50
MECH 425	Manufacturing of Composites	3.50
MECH 426	Stress and Failure Analysis of Machinery	3.00
MECH 460	Finite Element Analysis	3.75
MECH 470	Industrial Electronics	3.50
MECH 498	Topics in Mechanical Engineering	3.00

3. Option C — Mechatronics and Controls

Students must complete a minimum of 15.25 credits from the following courses, including MECH 470 and at least three of the courses marked *.

		<i>Credits</i>
ELEC 481	Linear Systems	3.50
ELEC 482	System Optimization	3.50
ENGR 411	Special Technical Report	1.00
ENGR 472	Robot Manipulators	3.50
MECH 415	Advanced Programming for Mechanical and Industrial Engineers	3.00
MECH 463*	Fluid Power Control	3.50
MECH 470	Industrial Electronics	3.50
MECH 471*	Microcontrollers for Mechatronics	3.50
MECH 472	Mechatronics and Automation	3.50
MECH 473*	Control System Design	3.50
MECH 474*	Mechatronics	3.75
MECH 480	Flight Control Systems	3.50
MECH 482	Avionic Navigation Systems	3.00
MECH 498	Topics in Mechanical Engineering	3.00

4. Option D — Aerospace and Vehicle Systems

Students must complete a minimum of 15.25 credits from the following courses, including at least three of the courses marked *.

		<i>Credits</i>
ENGR 411	Special Technical Report	1.00
INDU 412	Human Factors Engineering	3.50
INDU 440	Product Design and Development	3.00
MECH 412	Computer-Aided Mechanical Design	3.50
MECH 415	Advanced Programming for Mechanical and Industrial Engineers	3.00
MECH 424	MEMS — Design and Fabrication	3.50
MECH 431	Principles of Aeroelasticity	3.00
MECH 444	Guided Vehicle Systems	3.00
MECH 447*	Fundamentals of Vehicle System Design	3.50
MECH 448*	Vehicle Dynamics	3.00
MECH 454	Vehicular Internal Combustion Engines	3.00
MECH 460	Finite Element Analysis	3.75
MECH 462	Turbomachinery and Propulsion	3.00
MECH 463	Fluid Power Control	3.50
MECH 464	Aerodynamics	3.00
MECH 470	Industrial Electronics	3.50
MECH 473	Control System Design	3.50
MECH 480*	Flight Control Systems	3.50

	MECH 481	Materials Engineering for Aerospace	3.00
	MECH 482*	Avionic Navigation Systems	3.00
	MECH 498	Topics in Mechanical Engineering	3.00
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71.40.2 <i>Course Requirements</i> (BEng in Industrial Engineering)	The program in Industrial Engineering consists of the Engineering Core, the Industrial Engineering Core, and elective credits as shown below. The minimum length of the program is 120 credits.		
	Engineering Core (30.5 credits) See §71.20.5.		
	Industrial Engineering Core		<i>Credits</i>
	ENGR 244	Mechanics of Materials	3.75
	ENGR 245	Mechanical Analysis	3.00
	ENGR 251	Thermodynamics I	3.00
	ENGR 311	Transform Calculus and Partial Differential Equations	3.00
	INDU 211	Introduction to Production and Manufacturing Systems	3.00
	INDU 311	Simulation of Industrial Systems	3.50
	INDU 320	Production Engineering I	3.00
	INDU 321	Production Engineering II	3.00
	INDU 323	Operations Research I	3.00
	INDU 324	Operations Research II	3.00
	INDU 330	Engineering Management	3.00
	INDU 371	Stochastic Models in Industrial Engineering	3.00
	INDU 372	Quality Control and Reliability	3.00
	INDU 411	Computer Integrated Manufacturing	3.50
	INDU 412	Human Factors Engineering	3.50
	INDU 421	Facilities Design and Material Handling Systems	3.50
	INDU 423	Inventory Control	3.50
	INDU 490	Capstone Industrial Engineering Design Project	4.00
	MECH 211	Mechanical Engineering Drawing	3.50
	MECH 215	Programming for Mechanical and Industrial Engineers	3.50
	MECH 221	Materials Science	3.00
	MECH 311	Manufacturing Processes	3.75
	MECH 313	Machine Drawing and Design	3.00
	MECH 370	Modelling, Simulation and Control Systems	3.50
			<hr/>
			78.50
	Electives		
	Students must complete a minimum of 11 credits from the following courses, with no more than two of the courses marked *.		
			<i>Credits</i>
	COMM 301*	Management Information Systems	3.00
	DESC 385*	Decision Support Systems	3.00
	DESC 387*	Fundamentals of Electronic Business	3.00
	ENGR 361	Fluid Mechanics I	3.00
	ENGR 411	Special Technical Report	1.00
	INDU 410	Safety Engineering	3.50
	INDU 440	Product Design and Development	3.00
	INDU 466	Decision Models in Service Sector	3.00
	INDU 475	Advanced Concepts in Quality Improvement	3.00
	INDU 498	Topics in Industrial Engineering	3.00
	MECH 371	Analysis and Design of Control Systems	3.75
	MECH 415	Advanced Programming for Mechanical and Industrial Engineers	3.00

71.50

DEPARTMENT OF BUILDING, CIVIL AND ENVIRONMENTAL ENGINEERING

Faculty

Chair

SABAH TOMAALKASS, *Professor*

Associate Chair

MOHAMMED ZAHEERUDDIN, *Professor*

Professors

ANDREAS K. ATHIENITIS
PAUL P. FAZIO
RICHARD WILLIAM GUY
HUY KINH HA
FARIBORZ HAGHIGHAT
ADEL M. HANNA
OSAMA MOSELHI
OSCAR A. PEKAU
AMRUTHUR S. RAMAMURTHY
THEODORE STATHOPOULOS
RADU G. ZMEUREANU

Distinguished Professors Emeriti

DOREL FELDMAN
CEDRIC MARSH
ZENON A. ZIELINSKI

Professors Emeriti

BALA ASHTAKALA
HORMOZ B. POOROOSHASB

Associate Professors

DOMINIQUE DEROME
MARIA ELEKTOROWICZ
CATHERINE MULLIGAN
TAREK ZAYED

Assistant Professors

CIPRIAN ALECSANDRU
ASHUTOSH BAGCHI
ZHI CHEN
KHALED GALAL
SAMUEL LI
MICHELLE NOKKEN
ATTILA M. ZSAKI

Limited Term Appointment

HAIFA EL-SADI

Adjunct Professors

S. BÉBAWI
G. ZHANG

Adjunct Associate Professors

ALI BAGHLOUL
B.L. CARBALLADA
SAMIA GAMATI
NICOLAE TUDOROIU
NGOC-DIEP VO
LALEH YERUSHALMI

Adjunct Assistant Professors

HASSAN BAAJ
GE HUA
S. KUMAR
SOHEIL RASTAN

Location

Sir George Williams Campus

Engineering, Computer Science and Visual Arts Complex, Room: EV 006.139
514-848-2424 ext. 3200
514-848-2424 ext. 7800

Objectives

Building Engineering, as a discipline, encompasses the body of knowledge which pertains to all phases in the life-cycle of a constructed facility, namely conception, planning, design, construction, operation, and disposal.

Concordia has a unique undergraduate program leading to a BEng in Building Engineering designed to meet the needs of the construction industry for engineers familiar with the overall design of built facilities.

In addition to the basic engineering sciences, the program emphasizes the fundamentals of building materials, structural analysis and design, building services (acoustical, heating, lighting, air conditioning), economics, and project management. The student also has available certain electives which will be of use in the design of various phases of a building.

Students who complete all but one of their 200- and 300-level courses with a sufficiently high standing may apply through the Associate Dean, Student Academic Services to enter a combined program leading to the joint award of both a BEng and an MEng degree in Building Engineering. It is expected that those who aspire to leadership roles within the building industry will enter such a combined program. The combined program requires a further 12 months of full-time study, after which graduates will not only have obtained further grounding in the basics, but will also have specialized in one of four branches: Building Science, Building Environment, Building Structures, Construction Management. For details of the graduate component, refer to the School of Graduate Studies Calendar.

71.50.1
Course Requirements
(BEng in Building
Engineering)

The program in Building Engineering consists of the Engineering Core, the Building Engineering Core, and at least nine elective credits chosen from the elective courses listed below. The normal length of the program is 120 credits.

Engineering Core for Building Engineering (29 credits)*

See §71.20.5. Students in BEng (Bldg) must successfully complete BLDG 482 instead of ENGR 392.
 *Note: The Engineering Core credits for students in the Building Engineering program are reduced from 30.5 credits to 29 credits since Building Engineering students are not required to take ENGR 202 (1.5 credits) in their program.

Building Engineering Core		<i>Credits</i>
BCEE 231	Structured Programming and Applications for Building and Civil Engineers	3.00
BCEE 232	Programming for Building and Civil Engineers I	2.00
BCEE 342	Structural Analysis I	2.00
BCEE 343	Structural Analysis II	3.00
BCEE 344	Structural Design I	3.00
BCEE 345	Structural Design II	3.00
BCEE 371*	Surveying	3.00
BCEE 451	Construction Engineering	3.00
BLDG 212	Building Engineering Drawing	3.00
BLDG 341	Building Engineering Systems	3.00
BLDG 365	Building Science	3.50
BLDG 366	Acoustics and Lighting	3.50
BLDG 371	Building Service Systems	3.50
BLDG 390	Building Engineering Design Project	3.50
BLDG 463	Building Envelope Design	3.00
BLDG 471	HVAC System Design	4.00
BLDG 476	Thermal Analysis of Buildings	3.00
BLDG 490	Capstone Building Engineering Design Project	4.00
CIVI 321	Engineering Materials	3.75
CIVI 432	Soil Mechanics	3.50
ENGR 242	Statics	3.00
ENGR 243	Dynamics	3.00
ENGR 244	Mechanics of Materials	3.75
ENGR 251	Thermodynamics I	3.00
ENGR 311	Transform Calculus and Partial Differential Equations	3.00
ENGR 361	Fluid Mechanics I	3.00
		<hr/> 82.00

*Summer course to be taken before entering second year of BEng program.

Elective Courses

A student must choose a minimum of nine credits from the following list of elective courses.

	<i>Credits</i>
BCEE 331	Programming for Building and Civil Engineers II
BCEE 452	Matrix Analysis of Structures
BCEE 455	Introduction to Structural Dynamics
BLDG 462	Modern Building Materials
BLDG 465	Fire and Smoke Control in Buildings
BLDG 472	Building Energy Conservation Technologies
BLDG 473	Building Acoustics
BLDG 474	Building Illumination and Daylighting
BLDG 475	Indoor Air Quality
BLDG 477	Control Systems in Buildings
BLDG 478	Project Management for Construction
BLDG 491	Labour and Industrial Relations in Construction
BLDG 492	Construction Processes
BLDG 493	Legal Issues in Construction
BLDG 498	Topics in Building Engineering
CIVI 435	Foundation Design
CIVI 453	Design of Reinforced Concrete Structures
CIVI 454	Design of Steel Structures
ENGR 411	Special Technical Report

Information Technology Electives		Credits
BCEE 331	Programming for Building and Civil Engineers II	3.00
COEN 231	Introduction to Discrete Mathematics	3.00
COMP 352	Data Structures and Algorithms	3.00

Objectives	<p>Civil Engineering is concerned with the creation of systems of constructed facilities which play an important role in sound economic growth of society. It is also concerned with the development of technologies to combat pollution of air, water, and soil. Civil engineers are responsible for the design of foundations and superstructures of common structures such as buildings, bridges, dams, tunnels, wharves, as well as many unusual structures such as rocket installations, containment vessels for nuclear reactors, supports for radio telescopes, frameworks for aircraft. In addition, they are concerned with the engineering aspects of water resources; transportation facilities; planning metropolitan areas, and conducting and managing their public facilities. In dealing with environmental problems, civil engineers perform vital functions such as monitoring and controlling air, water, and soil quality, assessing the impact of technological changes on the environment, and developing innovative waste reduction technologies.</p>
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71.50.2	The program in Civil Engineering consists of the Engineering Core, the Civil Engineering Core, and one of the options listed below. The normal length of the program is 120 credits.
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Course Requirements (BEng in Civil Engineering)	Engineering Core (30.5 credits)	
	Civil Engineering Core	
	Credits	
BCEE 231	Structured Programming and Applications for Building and Civil Engineers	3.00
BCEE 232	Programming for Building and Civil Engineers I	2.00
BCEE 342	Structural Analysis I	2.00
BCEE 343	Structural Analysis II	3.00
BCEE 344	Structural Design I	3.00
BCEE 345	Structural Design II	3.00
BCEE 371*	Surveying	3.00
BCEE 451	Construction Engineering	3.00
CIVI 212	Civil Engineering Drawing	3.00
CIVI 231	Geology	2.75
CIVI 321	Engineering Materials	3.75
CIVI 341	Civil Engineering Systems	3.00
CIVI 361	Introduction to Environmental Engineering	3.50
CIVI 372	Transportation Engineering	3.00
CIVI 381	Hydraulics	3.75
CIVI 390	Civil Engineering Design Project	3.50
CIVI 432	Soil Mechanics	3.50
CIVI 490	Capstone Civil Engineering Design Project	4.00
ENGR 242	Statics	3.00
ENGR 243	Dynamics	3.00
ENGR 244	Mechanics of Materials	3.75
ENGR 251	Thermodynamics I	3.00
ENGR 311	Transform Calculus and Partial Differential Equations	3.00
ENGR 361	Fluid Mechanics I	3.00
		74.50

*Summer course to be taken before entering second year of BEng program.

Option Course Requirements

Students must complete a minimum of 15 credits from one of the following options: A, B or C. Option A is designed for students interested in careers in structural, geotechnical, and transportation engineering. Option B is tailored for students wishing to pursue careers in environmental engineering. Option C is designed for students interested in the applications of information technology in civil engineering.

Option A – Civil Infrastructure		Credits
BCEE 452	Matrix Analysis of Structures	3.00
BCEE 455	Introduction to Structural Dynamics	3.00
CIVI 435	Foundation Design	3.50
CIVI 437*	Advanced Geotechnical Engineering	3.00

CIVI 453	Design of Reinforced Concrete Structures	3.50
CIVI 454	Design of Steel Structures	3.50
CIVI 471	Highway and Pavement Design	3.50
CIVI 474*	Transportation Planning and Design	3.00
Note: Students may choose one BCEE or BLDG or CIVI course (minimum three credits) from Option B or C courses marked with *.		

Option B – Environmental		<i>Credits</i>
CIVI 382*	Water Resources Engineering	3.50
CIVI 464*	Environmental Impact Assessment	3.00
CIVI 465	Water Pollution and Control	3.50
CIVI 466	Engineering Aspects of Chemical and Biological Processes	3.00
CIVI 467*	Air Pollution and Emission Control	3.00
CIVI 468	Waste Management	3.00
CIVI 469*	Geo-Environmental Engineering	3.50
CIVI 483*	Hydrology	3.00
CIVI 484*	Hydraulic Engineering	3.50
Note: Students may choose one BCEE or BLDG or CIVI course (minimum three credits) from Option A or C courses marked with *.		

Option C – Information Technology		<i>Credits</i>
BCEE 331	Programming for Building and Civil Engineers II	3.00
BCEE 452	Matrix Analysis of Structures	3.00
CIVI 440*	Computer Applications in Civil Engineering Practice	3.00
CIVI 464	Environmental Impact Assessment	3.00
COEN 231	Introduction to Discrete Mathematics	3.00
COMP 352	Data Structures and Algorithms	3.00

Option A, B, or C		<i>Credits</i>
ENGR 411	Special Technical Report	1.00

71.60

ENGINEERING COURSE DESCRIPTIONS

ENGINEERING AND COMPUTER SCIENCE

ENCS 272 *Composition and Argumentation for Engineers* (3 credits)

Prerequisite: Completion of all ESL courses required on admission. Fundamentals of English composition and argumentation: grammar; reasoning and persuasion; persuasive proofs; argumentation; structuring and outlining; the problem statement; the body; and the conclusions. Language and persuasion for effective communication in professional engineering. Cultivation of a writing style firmly based on clear and critical thinking skills. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who pass this course with C- or higher will fulfil the University Writing Skills Requirement, and will be eligible to enrol in ENCS 282.

ENCS 282 *Technical Writing and Communication* (3 credits)

Prerequisite: Students must have satisfied the requirements in §16.2.4 or §71.20.7 by passing the University Writing Test (UWT) or the Engineering Writing Test (EWT), or by passing ENCS 272 with a grade of C- or higher. Technical writing form and style. Technical and scientific papers, abstracts, reports. Library research and referencing methods for engineers and computer scientists. Technical communication using information technology: document processing software, computer-assisted presentation, analysis and design of Web presentation, choice and use of appropriate tools. Students will prepare an individual major report and make an oral presentation. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for ENCS 281 may not take this course for credit.

ENCS 382 *Innovation and Critical Thinking in Science and Technology* (3 credits)

Prerequisite: ENCS 282; 60 credits in BEng or BCompSc program. Understanding, thinking, arguing, and creativity in science; analysing and critiquing engineering problems using theories of creativity, communication, business, and psychology; exploring the processes of invention and innovation and their impact on economics, popular media, and social and cultural structures; case studies of why some technologies fail and others succeed; examining the role engineers and computer scientists play in the diffusion of ideas. Students will be evaluated on case studies, assignments, and exams. Lectures: three hours per week. Tutorial: one hour per week.

ENCS 393 *Social and Ethical Dimensions of Information and Communication Technologies* (3 credits)

Prerequisite: ENCS 282; 40 credits in BCompSc program. Ethics in an information society; surveillance and privacy; economic globalization and intellectual property in a digital world: the digital divide; computer-based profiling and hacking; electronic democracy; computer-mediated experience; and information productivity and the work/life balance. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for ENCS 410 may not take this course for credit.

ENCS 498 *Topics in Engineering and Computer Science* (3 credits)

Prerequisite: Permission of the Faculty. This course may be offered in a given year upon the authorization of the Faculty. The course content may vary from offering to offering.

ENGINEERING

ENGR 108 *Engineering Industrial Experience Reflective Learning I* (3 credits)

Prerequisite: Permission of the Faculty. This course is a reflective learning module for students in their related field which is based on their academic requirements and their first industrial experience.

ENGR 201 *Professional Practice and Responsibility* (1.5 credits)

Health and safety issues for engineering projects: Quebec and Canadian legislation; safe work practices; general laboratory safety common to all engineering disciplines, and specific laboratory safety pertaining to particular engineering disciplines. Review of the legal framework in Quebec, particularly the Professional Code and the Engineers Act, as well as professional ethics. Lectures: one and a half hours per week. Tutorial: one hour per week, alternate weeks.

NOTE: Students who have received credit for ENGR 402 or SOEN 402 may not take this course for credit.

ENGR 202 *Sustainable Development and Environmental Stewardship* (1.5 credits)

Introduction to the concept of sustainable development and the approaches for achieving it. Relationships with economic, social, and technological development. Methods for evaluating sustainability of engineering projects, including utilization of relevant databases and software. Impact of engineering design and industrial development on the environment. Case studies. Lectures: one and a half hours per week.

ENGR 208 *Engineering Industrial Experience Reflective Learning II* (3 credits)

Prerequisite: ENGR 108 and permission of the Faculty. This course expands on the students' second industrial experience term in their related field of study to further develop their knowledge and work-related skills.

ENGR 213 *Applied Ordinary Differential Equations* (3 credits)

Prerequisite: MATH 204 (Cegep Mathematics 105) previously or concurrently; MATH 205 (Cegep Mathematics 203). This course introduces engineering students to the theory and application of ordinary differential equations. Definition and terminology, initial-value problems, separable differential equations, linear equations, exact equations, solutions by substitution, linear models, orthogonal trajectories, complex numbers, form of complex numbers: powers and roots, theory: linear equations, homogeneous linear equations with constant coefficients, undetermined coefficients, variation of parameters, Cauchy-Euler equation, reduction of order, linear models: initial value, review of power series, power series solutions, theory, homogeneous linear systems, solution by diagonalisation, non-homogeneous linear systems. Eigenvalues and eigenvectors. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for EMAT 212 or 213 may not take this course for credit.

ENGR 233 *Applied Advanced Calculus* (3 credits)

Prerequisite: MATH 204 (Cegep Mathematics 105); MATH 205 (Cegep Mathematics 203). This course introduces engineering students to the theory and application of advanced calculus. Functions of several variables, partial derivatives, total and exact differentials, approximations with differentials. Tangent plane and normal line to a surface, directional derivatives, gradient. Double and triple integrals. Polar, cylindrical, and spherical coordinates. Change of variables in double and triple integrals. Vector differential calculus; divergence, curl, curvature, line integrals, Green's theorem, surface integrals, divergence theorem, applications of divergence theorem, Stokes' theorem. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for EMAT 232 or 233 may not take this course for credit.

ENGR 242 *Statics* (3 credits)

Prerequisite: ENGR 213 previously or concurrently; PHYS 204; MATH 204. Resultant of force systems; equilibrium of particles and rigid bodies; distributed forces; statically determinate systems; trusses; friction; moments of inertia; virtual work. Shear and bending moment diagrams. Lectures: three hours per week. Tutorial: two hours per week.

ENGR 243 *Dynamics* (3 credits)

Prerequisite: ENGR 213, 242. Kinematics of a particle and rigid body; forces and accelerations; work and energy; impulse and momentum; dynamics of a system of particles and rigid bodies, introduction to vibrations. Lectures: three hours per week. Tutorial: two hours per week.

ENGR 244 *Mechanics of Materials* (3.75 credits)

Prerequisite: ENGR 213; ENGR 242 or ENCS 245; ENGR 233 previously or concurrently. Mechanical behaviour of materials; stress; strain; shear and bending moment diagrams; introduction to inelastic action. Analysis and design of structural and machine elements subjected to axial, torsional, and flexural loadings. Combined stresses and stress transformation. Deflections. Introduction to elastic stability. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: three hours per week, alternate weeks.

ENGR 245 *Mechanical Analysis* (3 credits)

Prerequisite: PHYS 204; ENGR 213 previously or concurrently. Forces in a plane and in space, moments of forces, Varignon's theorem, rigid bodies in equilibrium, free-body diagram. Centroids, centres of gravity. Distributed forces, moments of inertia. Principle of virtual work. Kinematics of particles and rigid bodies. Forces and accelerations; work and energy; impulse and momentum. Kinetics of particles and rigid bodies. Lectures: three hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for ENCS 245 may not take this course for credit.

ENGR 251 *Thermodynamics I* (3 credits)

Prerequisite: MATH 203 (Cegep Mathematics 103). Basic principles of thermodynamics and their application to various systems composed of pure substances and their homogeneous non-reactive mixtures. Simple power production and utilization cycles. Lectures: three hours per week. Tutorial: two hours per week.

ENGR 301 *Engineering Management Principles and Economics* (3 credits)

Introduction to project delivery systems. Principles of project management; role and activity of a manager; enterprise organizational charts; cost estimating; planning and control. Company finances; interest and time value of money; discounted cash flow; evaluation of projects in private and public sectors; depreciation methods; business tax regulations; decision tree; sensitivity analysis. Lectures: three hours per week.
NOTE: Students who have received credit for ENGR 401 or 403 may not take this course for credit.

ENGR 308 *Engineering Industrial Experience Reflective Learning III* (3 credits)

Prerequisite: ENGR 208 and permission of the Faculty. This course further expands on the

students' third industrial experience in their related field of study to further develop their knowledge and work-related skills.

ENGR 311 *Transform Calculus and Partial Differential Equations* (3 credits)

Prerequisite: ENGR 233. Elements of complex variables. The Laplace transform: Laplace transforms and their properties, solution of linear differential equations with constant coefficients. Further theorems and their applications. The Fourier transform: orthogonal functions, expansion of a function in orthogonal functions, the Fourier series, the Fourier integral, the Fourier transform, the convolution theorem. Partial differential equations: physical foundations of partial differential equations, introduction to boundary value problems. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for EMAT 311 or MECH 333 may not take this course for credit.

ENGR 361 *Fluid Mechanics I* (3 credits)

Prerequisite: ENGR 213, 233, 251. Basic concepts and principles of fluid mechanics. Classification of fluid flow. Hydrostatic forces on plane and curved surfaces, buoyancy and stability, fluids in rigid body motion. Mass, momentum, and energy conservation integral equations. Bernoulli equation. Basic concepts of pipe and duct flow. Introduction to Navier-Stokes equations. Similarity and model studies. Lectures: three hours per week. Tutorial: one hour per week.

ENGR 371 *Probability and Statistics in Engineering* (3 credits)

Prerequisite: ENGR 213, 233. Axioms of probability theory. Events. Conditional probability. Bayes theorem. Random variables. Mathematical expectation. Discrete and continuous probability density functions. Transformation of variables. Probabilistic models, statistics, and elements of hypothesis testing (sampling distributions and interval estimation). Introduction to statistical quality control. Applications to engineering problems. Lectures: three hours per week. Tutorial: one hour per week.

ENGR 391 *Numerical Methods in Engineering* (3 credits)

Prerequisite: ENGR 213, 233; COMP 248 or COEN 243 or MECH 215 or BCEE 232. Roots of algebraic and transcendental equations; function approximation; numerical differentiation; numerical integration; solution of simultaneous algebraic equations; numerical integration of ordinary differential equations. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for EMAT 391 may not take this course for credit.

ENGR 392 *Impact of Technology on Society* (3 credits)

Prerequisite: ENCS 282; ENGR 201, 202. Social history of technology and of science including the industrial revolution and modern times.

Engineering and scientific creativity, social and environmental problems created by uncontrolled technology, appropriate technology. Lectures: three hours per week.

NOTE: Students who have received credit for ENGR 492 may not take this course for credit.

ENGR 410 *Technical Report* (1.5 credits)

Prerequisite: ENCS 281. Registration in this course is by departmental permission only. Students being considered for this course must have completed ENCS 281 and been accepted to an Engineering program prior to September 2001. Students given permission to take this course must submit a report from 2,000 to 5,000 words long, on a topic closely related to the student's discipline. The report must present a review of a current engineering problem, a proposal for a design project, or a current engineering practice; a student's summer work may provide a suitable basis. Students are responsible for acquiring a complete set of instructions and the document *Form and Style* in the spring before entering the final year of the BEng program. These documents are available on the Faculty's Student Academic Services website.

NOTE 1: Students must receive approval from their Undergraduate Program Director in order to register for this course. If approved, students must discuss their proposed topic with a faculty member in their Department, and obtain departmental approval of the proposed topic prior to registration for the course.

NOTE 2: Students in the Software Engineering program must take this course concurrently with SOEN 490.

NOTE: Students who have received credit for ENGR 411 may not take this course for credit.

ENGR 411 *Special Technical Report* (1 credit)

Prerequisite: ENCS 281 or 282. Registration in this course is by departmental permission only. Students in the BEng program must submit a project report associated with their final-year Capstone Design project course. While a portion of the requirements for the written report will depend on the associated project course for which the student is registered, the report should also conform to the set of instructions available through the departmental offices or the Office of Student Academic Services of the Faculty.

NOTE: Students who have received credit for ENGR 410 may not take this course for credit.

ENGR 472 *Robot Manipulators* (3.5 credits)

Prerequisite: ELEC 372 or ENGR 372 or MECH 371. Spatial descriptions and transformations. Manipulator forward and inverse kinematics. Jacobians: velocities and static forces. Manipulator dynamics. Trajectory generation. Position control of manipulators. Force control of manipulators. Robot programming languages. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENCS 472 may not take this course for credit.

ENGR 498 *Topics in Engineering* (3 credits)
Prerequisite: Permission of the Faculty. This course may be offered in a given year upon the authorization of the Faculty. The course content may vary from offering to offering.

BUILDING, CIVIL AND ENVIRONMENTAL ENGINEERING

BCEE 231 *Structured Programming and Applications for Building and Civil Engineers* (3 credits)

Prerequisite: MATH 204; ENGR 242 previously or concurrently. Introduction to procedural programming, program structure and development: specifications, analysis of requirements, flow charting, incremental development, testing, validation and program documenting. Application of procedural programming, graphics and numerical tool box to mathematics and building, civil and environmental engineering. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for ENGR 231 may not take this course for credit.

BCEE 232 *Programming for Building and Civil Engineers I* (2 credits)

Prerequisite: BCEE 231. Elements of procedural programming: variables, primitive data types, scope, operators and expressions, control structures, functions, derived data types and basic data structures. Use of numerical tool box for engineering applications. Application examples and assignments will be drawn from building and civil engineering science. Lectures: two hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for ENGR 232 may not take this course for credit.

BCEE 331 *Programming for Building and Civil Engineers II* (3 credits)

Prerequisite: BCEE 232. Fundamentals of object-oriented programming: class definition, data and function members, constructors and destructors; derived classes; inheritance, polymorphism, class libraries; concepts of software engineering. Project on software design for building and civil engineering applications. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for ENGR 331 may not take this course for credit.

BCEE 342 *Structural Analysis I* (2 credits)

Prerequisite: ENGR 244 previously or concurrently. Analysis of statically determinate structures: deflections, strain energy concepts, virtual work principles. Mueller Breslau principle, influence lines. Approximate methods for statically indeterminate structures. Collapse load analysis. Computer applications. Lectures: two hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for ENGR 342 may not take this course for credit.

BCEE 343 *Structural Analysis II* (3 credits)

Prerequisite: BCEE 342. Analysis of statically indeterminate structures: the methods of consist-

ent deformations, slope deflection, and moment distribution. Application of virtual work principles. Introduction to matrix methods. Computer applications. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for ENGR 343 may not take this course for credit.

BCEE 344 *Structural Design I* (3 credits)

Prerequisite: BCEE 342 previously or concurrently. Basis for limit states design. Code requirements. Structural steel design: tension and compression members, beams and beam-columns. Connections. Introduction to the design of timber members. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for ENGR 344 may not take this course for credit.

BCEE 345 *Structural Design II* (3 credits)

Prerequisite: BCEE 342 previously or concurrently. Behaviour of reinforced concrete elements in flexure, compression, shear and bond. Limit states design of reinforced concrete beams, one-way slabs, columns, and footings. Serviceability limits states. Introduction to prestressed concrete and masonry structures. Design examples. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for ENGR 345 may not take this course for credit.

BCEE 371 *Surveying* (3 credits)

Prerequisite: BLDG 212 or CIVI 212. Elementary operations employed in engineering surveying; use, care, and adjustment of instruments; linear and angular measurements; traversing; earthwork calculations; theory of errors; horizontal and vertical curves and curve layout; slope stakes and grades, application of surveying methods to city, topographic surveying, and introduction to advanced surveying techniques; use of digital computers in surveying calculations. Summer school taken before entering second year of study in the BEng program. Lectures and fieldwork: eight hours per day; six days per week for three weeks.

NOTE: Students who have received credit for CIVI 271 may not take this course for credit.

BCEE 451 *Construction Engineering* (3 credits)

Prerequisite: BLDG 341 or CIVI 341. The nature of construction and the environment in which the industry works; organizational structures for project delivery; construction contracts and documents; introduction to construction processes: excavation and site works, foundation layout, concrete form design, concrete, steel, timber, and masonry construction; project planning, scheduling, and control; construction safety. Lectures: three hours per week.

NOTE: Students who have received credit for ENGR 451 may not take this course for credit.

BCEE 452 *Matrix Analysis of Structures* (3 credits)

Prerequisite: ENGR 213, 233; BCEE 343.

Classical and matrix methods of structural analysis; influence coefficients, transformation matrices. Matrix formulation of the force and of the displacement methods of analysis. Direct stiffness approach; sub-structure technique. Introduction to finite-element method. Computer applications. Lectures: three hours per week.
NOTE: Students who have received credit for ENGR 452 may not take this course for credit.

BCEE 455 *Introduction to Structural Dynamics* (3 credits)

Prerequisite: ENGR 243, 391; BCEE 342.
 Theory of vibration. Dynamic response of simple structural systems. Effects of blast, wind, traffic, and machinery vibrations. Basic concepts in earthquake resistant design. Computer applications. Lectures: three hours per week.
NOTE: Students who have received credit for ENGR 455 may not take this course for credit.

BUILDING ENGINEERING

BLDG 212 *Building Engineering Drawing* (3 credits)

Fundamentals of technical drawing, dimensioning practices, orthographic projections, auxiliary and sectional views of buildings. Theory and applications of descriptive geometry in building design. Computer-aided building drawing. Building sub-systems and related graphics standards; architectural and building engineering drawing at preliminary and final stages. Introduction to the design of light-frame buildings. Project: representation of a building and its sub-systems. Lectures: three hours per week. Tutorial: two hours per week.
NOTE: Students who have received credit for BLDG 211 may not take this course for credit.

BLDG 341 *Building Engineering Systems* (3 credits)

Prerequisite: BCEE 231 previously or concurrently. Introduction to systematic solution of building engineering problems. Techniques treated include linear programming, network analysis, nonlinear programming. Introduction to decision analysis and simulation. Application of optimization methods for solution of design problems in building science, building environment, building structures, and construction management, taking into account sustainability issues. Lectures: three hours per week.

BLDG 365 *Building Science* (3.5 credits)

Prerequisite: ENGR 251. General introduction to the thermal environment and sustainable development issues. Topics include heat, temperature, one-dimensional steady-state processes. Convection: natural and forced. Radiation. Combined radiative and convective surface transfer. Psychrometrics. Thermal comfort. Air quality. Condensation: surface and interstitial. Introduction to compressible viscous flow, friction, and flow in pipes; boundary layer and wind effects. Lectures: three hours per week.

Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

NOTE: Students who have received credit for BLDG 364 may not take this course for credit.

BLDG 366 *Acoustics and Lighting* (3.5 credits)

Prerequisite: ENGR 243. General introduction to the aural and visual environment. Psychological impact of environment. Subjective and objective scales of measurement. Introduction to vibration. The hearing mechanism. Transmission of sound, passive control of noise in buildings, transmission loss, absorption and reverberation time. Room acoustic assessment. Active control of the aural environment. Visual perception. Photometry, brightness, luminance, and illumination. Concept of natural lighting in building. Artificial lighting; light sources; luminaries. Calorimetry. Calculation methods for artificial lighting. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.
NOTE: Students who have received credit for BLDG 363 may not take this course for credit.

BLDG 371 *Building Service Systems* (3.5 credits)

Prerequisite: BLDG 365. Principles of building service systems, including electrical, gas, communications, service-water supply and distribution; introduction to plans, codes, and standards for utility distribution systems. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

BLDG 390 *Building Engineering Design Project* (3.5 credits)

Prerequisite: BLDG 341; BCEE 344; BCEE 345 previously or concurrently. The project of each team will encompass the conceptual and preliminary design of a new medium-size building. Students will learn building engineering design process, methodology, identification of objectives, building codes, formulation of design problems. Development and evaluation of sustainable building design alternatives. Conceptual building design: spatial requirements, design of space layout. Preliminary building design: synthesis and design of structures, enclosure systems, and services (HVAC, lighting, electrical distribution) using computer-aided design tools. Performance evaluation using modelling, sensitivity analysis and cost estimation. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.
NOTE: Students who have received credit for BLDG 459 may not take this course for credit.

BLDG 401 *Building Economics* (3 credits)

Prerequisite: BLDG 341 previously or concurrently. Development of economic performance measures of interest to developers, owners, contractors, and users. Sources of finance and the determinants of the cost of money. Treatment of life cycle costing, economic risk; tax regulation, inflation, forecasting techniques; model building, cost indices, elemental estimating, computerized

information systems. Consideration of economic analyses of projects, single buildings, and building components. Lectures: three hours per week.

BLDG 462 *Modern Building Materials*
(3 credits)

Prerequisite: CIVI 321. Engineering properties of building materials such as: plastics, synthetic fibres, adhesives, sealants, caulking compounds, foams, sandwich panels, composites, polymer concrete systems, fibre-reinforced concretes, plastic mortars, polymers for flooring, roofing, synthetic wall papers. Their structural, thermal, and acoustical properties. Consideration of corrosion, bio- and thermal-degradation, stability to ultraviolet and solar radiation. Laboratory sessions to illustrate synthesis, application, testing, deterioration, and protection. Lectures: three hours per week.

BLDG 463 *Building Envelope Design*
(3 credits)

Prerequisite: BLDG 365; CIVI 321. Technical influences in the design of building envelope, including the control of heat flow, air and moisture penetration, building movements, and deterioration. Application of air/vapour barrier and rain-screen systems. Performance assessment and building codes through case studies and design projects. Sustainable design principles. Design of walls, roofs, joints and assemblies. Cause of deterioration and preventive measures, on-site investigation. Relevant building codes and standards. Lectures: three hours per week.

NOTE: Students who have received credit for BLDG 461 may not take this course for credit.

BLDG 465 *Fire and Smoke Control in Buildings* (3 credits)

Prerequisite: BLDG 365, 366. Topics treated include fire and smoke control; failure mechanisms of building enclosure illustrated by case studies; code requirements for enclosure systems; systems approach for fire safety. Lectures: three hours per week.

BLDG 471 *HVAC System Design* (4 credits)

Prerequisite: BLDG 371; BLDG 476 previously or concurrently. Principles of HVAC system design and analysis; sustainable design issues and impact on environment; component and system selection criteria including room air distribution, fans and air circulation, humidifying and dehumidifying processes, piping and ducting design. Air quality standards. Control systems and techniques; operational economics; computer applications. Lectures: three hours per week. Laboratory: two hours per week.

BLDG 472 *Building Energy Conservation Technologies* (3 credits)

Prerequisite: BLDG 471 previously or concurrently. Standards of energy efficiency in buildings. Trends in energy consumption. Energy audit: evaluation of energy performance of existing buildings, weather normalization methods,

measurements, disaggregation of total energy consumption, use of computer models, impact of people behaviour. Energy efficiency measures in buildings: approaches, materials and equipments, operating strategies, evaluation methods of energy savings. Renewable energy sources: passive or active solar systems, geothermal systems, free-cooling. Optimum selection of energy sources. Impact of emerging technologies. Case studies. Lectures: three hours per week.

BLDG 473 *Building Acoustics* (3 credits)

Prerequisite: BLDG 366. Noise control criteria and regulations, instrumentation, noise sources, room acoustics, walls, barriers and enclosures, acoustical materials and structures, vibration and noise control systems for buildings. Lectures: three hours per week.

BLDG 474 *Building Illumination and Daylighting* (3 credits)

Prerequisite: BLDG 366. Production, measurement and control of light. Photometric quantities, visual perception and colour theory. Daylight and artificial illumination systems. Radiative transfer, fixture and lamp characteristics, control devices and energy conservation techniques. Design of lighting systems. Solar energy utilization and daylighting. Integration of lighting systems with mechanical systems for energy conservation and sustainable development. Lectures: three hours per week.

BLDG 475 *Indoor Air Quality* (3 credits)

Prerequisite: BLDG 371 previously or concurrently. Elements of indoor air quality, physical/chemical characteristics of contaminants, health effects, standard requirements. Estimation of the levels of indoor air contaminants in buildings. Design of ventilation systems for pollutant control. Air pollution due to outdoor air supply through ventilation systems. Effect of outdoor air pollution on indoor air quality. Lectures: three hours per week.

BLDG 476 *Thermal Analysis of Buildings*
(3 credits)

Prerequisite: BLDG 365; ENGR 361. Two- and three-dimensional steady-state and transient conductive heat transfer together with convection and radiation as applied to building materials and geometries. Heating and cooling load analysis, including building shapes, construction type, solar radiation, infiltration, occupancy effects, and daily load variations. Computer applications for thermal load analysis. Introduction to heat exchangers. Lectures: three hours per week. Tutorial: one hour per week.

BLDG 477 *Control Systems in Buildings*
(3 credits)

Prerequisite: BLDG 371 previously or concurrently. Introduction to automatic control systems. Control issues related to energy conservation, indoor air quality and thermal comfort in buildings. Classification of HVAC control systems. Control system hardware: selection and sizing of sensors,

actuators and controllers. Practical HVAC control systems; elementary local loop and complete control systems. Designing and tuning of controllers. Building automation systems. Case studies. Lectures: three hours per week.

BLDG 478 *Project Management for Construction* (3 credits)

Prerequisite: BLDG 341. Introduction to project management techniques in construction, including project delivery methods, construction contracts, cost estimating and bidding planning and scheduling, cash flow analysis, project tracking and control, computer applications. Lectures: three hours per week.

BLDG 482 *Impact of Technology on Society and Architecture* (3 credits)

Prerequisite: 20 courses in the BEng program. History of architecture as the confluence of social and technological evolution. Methodology and thought processes in the theory and design of cities and the human habitat. Impact of technology on society. Energy conservation, environmental constraints and sustainability issues. Lectures: three hours per week.

NOTE: Students who have received credit for BLDG 481 may not take this course for credit.

BLDG 490 *Capstone Building Engineering Design Project* (4 credits)

Prerequisite: Minimum of 75 credits in the BEng (Bldg) program including ENCS 282; BCEE 344, 345; BLDG 390; ENGR 301; or permission of the Department. The project of each team will encompass the integrated design of at least three sub-systems of a new or retro-fitted building to achieve high performance and efficiency at reasonable cost; sustainable design issues and environmental impact will be addressed in all projects. In the process, students will learn, through case studies and literature survey, the information gathering and decision/design process, problem-resolution as well as aspects related to management, teamwork and communication. Students registering for this course must contact the course coordinator for the detailed procedure. Lectures: two hours per week, two terms.

BLDG 491 *Labour and Industrial Relations in Construction* (3 credits)

Prerequisite: BCEE 451 or ENGR 451. The study of labour legislation with special emphasis on the construction industry, union organization, the theory and practice of negotiations, mediation, contract administration, and arbitration. Review of actual contracts, discussion of future trends. Lectures: three hours per week.

BLDG 492 *Construction Processes* (3 credits)

Prerequisite: BCEE 451 or ENGR 451. A study of current construction methods and techniques. The subjects include site preparation and earthwork, wood framing, masonry, concrete forming, slip forming, precast construction, industrialized

building, deep excavation shoring and underpinning. Design, erection, and removal of temporary construction work. Current field practice and safety considerations. Site visits. Lectures: three hours per week.

BLDG 493 *Legal Issues in Construction* (3 credits)

Prerequisite: BCEE 451 or ENGR 451. Legal concepts and processes applicable to the development of constructed facilities and to the operation of the construction firm. Emphasis on Quebec law and institutions. Lectures: three hours per week.

BLDG 498 *Topics in Building Engineering* (3 credits)

Prerequisite: Permission of the Department. This course may be offered in a given year upon the authorization of the Department. The course content may vary from offering to offering and will be chosen to complement the available elective courses. Lectures: three hours per week.

CIVIL ENGINEERING

CIVI 212 *Civil Engineering Drawing* (3 credits)

Fundamentals of technical drawing, dimensioning practice, orthographic projections, auxiliary and sectional views. Theory and applications of descriptive geometry in civil engineering. Computer-aided drawing and applications to the preparation of working drawing of steel and concrete structures. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for CIVI 211 may not take this course for credit.

CIVI 231 *Geology* (2.75 credits)

Basic principles of physical and structural geology with emphasis on topics related to civil engineering, study of minerals, rocks and soil types, load formation, techniques of air-photo interpretations, and geological maps. Lectures: two hours per week. Laboratory: three hours per week, alternate weeks.

CIVI 321 *Engineering Materials* (3.75 credits)

Prerequisite: CHEM 205 or equivalent. Linear and nonlinear material behaviour, time-dependent behaviour; structural and engineering properties of structural metals; behaviour of wood; production and properties of concrete; bituminous materials, ceramics, plastics; introduction to composite materials. Lectures: three hours per week. Laboratory: three hours per week, alternate weeks.

CIVI 341 *Civil Engineering Systems* (3 credits)

Prerequisite: BCEE 231 previously or concurrently. Development of concepts and techniques commonly associated with systems engineering which are applicable to design and operation of systems that concern civil engineers. Design and planning process; problem formulation,

optimization concepts, linear programming, decision analysis; system simulation; network planning and project scheduling; computer applications. The techniques developed are used to solve problems in transportation, water resources, structures, and construction management. Lectures: three hours per week.

CIVI 361 *Introduction to Environmental Engineering* (3.5 credits)

Prerequisite: ENGR 361. Ecosystems considerations, food chain, natural decomposition, and recycling; environmental problems and impact of engineering activities. Various modes of pollution, water, air, and soil contamination, noise pollution; pollution measurement and quantification. Water and waste-water physical, chemical and biological characteristics; turbidity and colour, dissolved oxygen, hardness, pH, alkalinity, organic content, sampling and analysis, chemical and biochemical oxygen demand. Basic processes of treatment: flocculation and coagulation, sedimentation, filtration. Lectures: three hours per week. Tutorial: two hours per week, alternate weeks. Laboratory: two hours per week, alternate weeks.

CIVI 372 *Transportation Engineering* (3 credits)

Prerequisite: CIVI 341. Fields of transportation engineering; transportation's roles in society; planning and design of road, rail, air, and waterway system components: terminals, right-of-way; control systems: evaluation of alternative modes and decision-making process; introduction to computer-aided design and management of systems. Lectures: three hours per week. Tutorial: one hour per week.

CIVI 381 *Hydraulics* (3.75 credits)

Prerequisite: ENGR 361, 391. Basic hydrodynamics; boundary layer theory, principle of energy losses. Steady flow in open channel; uniform flow, specific energy and critical flow, transition; gradually varied flow in channels and conduits, water surface profiles, computer applications. Flow measurement in open channel, weirs, overflow spillways. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: three hours per week, alternate weeks.

CIVI 382 *Water Resources Engineering* (3.5 credits)

Prerequisite: CIVI 381; ENGR 391 or EMAT 391. Sources of water: surface water, groundwater, water quantities and requirements. Water use cycle. Characteristics of water and wastewater. Demand forecast, water use prediction and planning. Groundwater withdrawal and well hydraulics. Water supply network analysis, design of distribution systems, storage, pumping. Sanitary and storm water quantities, urban hydrology. Design of sewer systems, interceptors, gravity sewer, computer applications. Sustainable use of water resources. Design case studies. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

CIVI 390 *Civil Engineering Design Project* (3.5 credits)

Prerequisite: BCEE 344; CIVI 361; BCEE 345 previously or concurrently. The project of each team will encompass the conceptual and preliminary design of a medium-size civil engineering project. Students will learn civil engineering design process, methodology, identification of objectives, codes, formulation of design problems. Development and evaluation of sustainable design alternatives. Conceptual design. Preliminary design: structural, services and environmental aspects using computer-aided design tools. Performance evaluation using modelling, sensitivity analysis, and cost estimation. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

CIVI 432 *Soil Mechanics* (3.5 credits)

Prerequisite: ENGR 244. Index properties and classification of soils. Weight-volume relationships. Soil structures. Moisture-density relationships. Permeability, deformation, and strength of soils. Principle of total and effective stresses. Steady state seepage through isotropic soil media. Stress distribution due to external loads and analysis of total settlements. Outline of theory of consolidation. Fundamentals of stability of earth retaining walls, slopes, and footings. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

NOTE: Students who have received credit for CIVI 431 may not take this course for credit.

CIVI 435 *Foundation Design* (3.5 credits)

Prerequisite: CIVI 432. Loads, bearing capacity, and settlement. Lateral pressures. Foundation drainage and water-proofing. Spread footings. Strip footings. Pile foundations. Caissons. Retaining walls. Sheet-piling walls. Braced cofferdams. Cellular cofferdams. Anchors. Lectures: two hours per week. Laboratory: three hours per week.

CIVI 437 *Advanced Geotechnical Engineering* (3 credits)

Prerequisite: CIVI 432. Mechanical properties of rocks and rock formations. Underground openings in rocks. Slope stability of stratified formations. Foundations on rocks. Rock bolting. Introduction of soil dynamics. Wave propagation in one and two dimensions in elastic media. Seismic waves. Foundations subjected to dynamic loading. Theory of liquefaction. Lectures: three hours per week.

CIVI 440 *Computer Applications in Civil Engineering Practice* (3 credits)

Prerequisite: BCEE 231; 75 credits in the program. General purpose IT tools for civil engineering applications: database programming and Web-based tools. Introduction to remote sensing and GIS. Application of major software packages in selected areas of civil engineering practice with emphasis on modelling, data integration, and work-flow. Case studies in structural design, geotechnical engineering, transportation, and environmental engineering. Lectures: two hours per week. Laboratory: two hours per week.

CIVI 453 *Design of Reinforced Concrete Structures* (3.5 credits)

Prerequisite: BCEE 343, 345. Two-way slab systems: flat plate, flat slab and slab-on-beams. Slender columns; columns subjected to biaxial bending. Calculation of lateral loads: wind and seismic. Lateral loads resisting systems: moment-resisting frames, shear walls and coupled shear walls. Prestressed concrete: losses, design requirements for flexure, shear, bond, anchorage and deflections. Design project. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

CIVI 454 *Design of Steel Structures* (3.5 credits)

Prerequisite: BCEE 343, 344. Trends and developments in structural-steel design. Framing systems. Floor systems; composite construction; plate girders. Braced frames; moment-resisting frames. Connections. P-Delta effects. Introduction to steel-bridge design. Design project. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

CIVI 464 *Environmental Impact Assessment* (3 credits)

Prerequisite: CIVI 361. Engineering activities and the environment; environmental ethics. Prediction and estimation of impact on air, water, soil quality, and biological, socio-economic, cultural environments. Water and air pollution laws, solid and hazardous waste laws. Environmental inventories, assessment preparation, and review. Federal and provincial laws and regulations on environmental assessment. Strategies for environmental compliance, resolution of environmental conflicts. Case studies. Lectures: three hours per week.

CIVI 465 *Water Pollution and Control* (3.5 credits)

Prerequisite: CIVI 361. Physical, chemical, and biological characteristics of water, water quality standards, reaction kinetics and material balances, eutrophication. Containment of reactive contaminants. Natural purification processes in water systems, adsorption, absorption; diffusion and dispersion, oxidation. Large-scale transport of contaminants, single and multiple source models; modelling of transport processes, computer simulation. Introduction to ground-water pollution, sea-water intrusion. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

CIVI 466 *Engineering Aspects of Chemical and Biological Processes* (3 credits)

Prerequisite: CIVI 361. Introduction to water purification, chemical treatment, coagulation, disinfection, special purification methods. Primary and secondary waste-water treatment, solution and surface chemistry, microbiological consideration; reaction kinetics, diffusion processes, membrane processes, re-aeration. Biological treatment, activated sludge process, treatment and disposal;

biological reactors; aerated lagoons; trickling filter; biological nutrient removal. Tertiary waste-water treatment. Lectures: three hours per week.

CIVI 467 *Air Pollution and Emission Control* (3 credits)

Prerequisite: CIVI 361. Types of air pollutants. Sources of air pollutants, effects of air pollutants on health, vegetation, materials, and the atmosphere; emission standards. Meteorological considerations, dispersion of pollutants in the atmosphere, distribution and cleansing of particle matter, atmospheric photochemical reactions. Particulate pollutant control, source correction, cooling treatment; control of gaseous pollutant, point sources, odour control; measurement techniques; computer applications. Lectures: three hours per week.

CIVI 468 *Waste Management* (3 credits)

Prerequisite: CIVI 361. Solid waste; source and generation, sampling and analysis, collection, transport, and storage. Waste recycling, physical and chemical reduction; drying; energy recovery; disposal of solid waste. Sanitary and secure landfill planning, site selection, design and operation; chemical and biological reactions. Hazardous waste, chemical and physical characteristics, handling, processing, transportation, and disposal. Resource recovery alternatives, material exchanges, hazardous waste management facilities, incinerators, landfills. Lectures: three hours per week.

CIVI 469 *Geo-Environmental Engineering* (3.5 credits)

Prerequisite: CIVI 361. Structure and surface chemistry of soil, ion exchange, hydrolysis equilibrium, adsorption. Biochemical degradation, toxic contaminants. Mechanical and thermodynamic equilibrium in soil. Geotechnical considerations in environmental design; soil decontamination. Barrier technologies and soil interaction. Landfill covers and leachate collection systems; subsurface investigation, soil-gas survey. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

CIVI 471 *Highway and Pavement Design* (3.5 credits)

Prerequisite: BCEE 371; CIVI 372. Design criteria, including capacity and level of service; route alignment and right-of-way considerations; geometric design; earthworks and construction practices. Pavement materials and tests; design of flexible and rigid pavements; pavement management. Computer applications. Geometric and pavement design projects. Lectures: two hours per week. Laboratory: three hours per week.

CIVI 474 *Transportation Planning and Design* (3 credits)

Prerequisite: CIVI 372. Transportation planning process; data collection and demand analysis; trip generation, trip distribution, modal split and route assignment; forecasting travel patterns.

Design of transportation facilities: street sections, intersections, and parking areas. Computer applications and design projects. Lectures: three hours per week. Tutorial: two hours per week, alternate weeks.

CIVI 483 *Hydrology* (3 credits)
Prerequisite: CIVI 381. Weather elements; precipitation, stage-discharge relations; evapo-transpiration; ground-water flow; stream-flow hydrography, unit hydrography, synthetic hydrographs; laminar flow; hydrologic routing; instantaneous hydrograph; hydraulic routing, method of characteristics, kinematic routing; statistical analysis, confidence intervals, stochastic generator, autoregressive model; applications of hydrology. Lectures: three hours per week. Tutorial: two hours per week.

CIVI 484 *Hydraulic Engineering* (3.5 credits)
Prerequisite: CIVI 381. Development of surface water resource; basic measurements in hydraulic engineering; storage reservoirs; practical problems; run-off characteristics of natural streams; probabilistic models; control structures; economic analysis; production function; project optimization; energy dissipators; sediment transportation; elements of river engineering; navigation; control of floods; computer modelling application. Design examples. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks. *NOTE: Students who have received credit for CIVI 489 may not take this course for credit.*

CIVI 490 *Capstone Civil Engineering Design Project* (4 credits)
Prerequisite: Minimum of 75 credits in BEng (Civil) including ENCS 282; ENGR 301; CIVI 361, 382, 390; BCEE 344, 345; or permission of the Department. The project of each team will encompass the integrated design of at least two sub-disciplines of civil engineering to achieve high performance at reasonable cost. Through case studies and literature survey, students learn the information gathering and decision/design process, problem resolution, and aspects related to management, teamwork, and communication. Students registering for this course must contact the course coordinator for the detailed procedure. Lectures: two hours per week, two terms. *NOTE: Students will work in groups under direct supervision of a faculty member.*

COMPUTER ENGINEERING

COEN 231 *Introduction to Discrete Mathematics* (3 credits)
Prerequisite: MATH 204 (Cegep Mathematics 105). Fundamental principles of counting: rules of sum and product; permutations, arrangements and combinations, the binomial theorem; combinations with repetition; distributions. Fundamentals of logic: basic connectives and truth tables; logical equivalence; the laws of logic; logical

implication; rules of inference; the use of quantifiers; proofs of theorems. Sets: the laws of set theory. Boolean algebra. Relation of Boolean algebra to logical and set theoretic operations. Modulo arithmetic: representations of numbers in binary, octal and hexadecimal formats; binary arithmetic. Induction and recursion: induction on natural numbers; recursive definitions. Functions and relations: cartesian products and relations; functions; function composition and inverse functions; computational complexity. Elements of graph theory: basic definitions of graph theory; paths, reachability and connectedness; computing paths from their matrix representation; traversing graphs represented as adjacency lists; trees and spanning trees. Lectures: three hours per week. Tutorial: one hour per week.

COEN 243 *Programming Methodology I* (3 credits)

Prerequisite: COEN 231 previously or concurrently. Introduction to computer hardware and software, programming and programming paradigms; including low-level programming. Overview of procedural programming languages: key elements; reserved words and identifiers; data types and declarations; statements; arithmetic expressions; different modes of execution. Top-down modular design using functions (and native classes). Flow control using If-Else and Switch statements. Repetition using loops and recursive functions. Simple data types: native and user-defined. Static data structures: arrays and structures. Overview of object-oriented programming languages. User-defined classes. Class attributes and methods. Object creation, use and destruction. Pointers and an introduction to dynamic data structures. Introduction to streams and files. Lectures: three hours per week. Tutorial: two hours per week. *NOTE: Students who have received credit for COMP 248 may not take this course for credit.*

COEN 244 *Programming Methodology II* (3 credits)

Prerequisite: COEN 243. Review of object-oriented programming and further concepts. More on classes. Revisiting pointers. Operator overloading: regular and advanced usage. Fundamentals of file and stream processing. Class composition and inheritance: regular and advanced usage. Virtual functions. Polymorphism. Static and dynamic binding. Abstract classes. Case study of a small-scale object-oriented project: simplified analysis, design, and implementation. Introduction to templates, the standard template library, and exception handling. Introduction to dynamic data types. Namespaces. Lectures: three hours per week. Tutorial: two hours per week. *NOTE: Students who have received credit for COMP 249 may not take this course for credit.*

COEN 311 *Computer Organization and Software* (3.5 credits)

Prerequisite: COEN 243, 312 previously or

concurrently. Introduction and terminology. Overview of the functional units and the operation of a computer. Machine programming fundamentals: instruction structure, addressing modes, the assembly process, examples of architectures. Case study of a microprocessor architecture: programming model, assembler and addressing modes, instruction set and formats; programming examples. Stacks, subroutines, macros, exceptions, interrupts. Program and interrupt driven I/O. Memory management. Introduction to system software: system kernel, system services, assemblers, compilers, linkers and loaders, user-level view of operating systems. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 15 hours total.

COEN 312 *Digital Systems Design I*
(3.5 credits)

Prerequisite: COEN 231. Logic gates and their use in the realization of Boolean algebra statements; logic minimization, multiple output circuits. Designing with MSI and LSI chips, decoders, multiplexers, adders, multipliers, programmable logic devices. Introduction to sequential circuits; flip-flops. Completely specified sequential machines. Machine equivalence and minimization. Implementation of clock mode sequential circuits. Lectures: three hours per week. Tutorial: two hours per week. Laboratory: 15 hours total.

COEN 313 *Digital Systems Design II*
(3.5 credits)

Prerequisite: COEN 312. Two-level and multi-level logic optimization techniques. Hardware description languages (VHDL) for synthesis and simulation. Asynchronous design. Algorithmic state machines. Clocking and clock skew. Metastability. Self-timed concepts. Finite state machine (FSM) optimization. State reduction. FSM partitioning. Programmable logic devices and field programmable gate arrays. Data path and control design for processors. Testing issues. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 15 hours total.
NOTE: Students who have received credit for COEN 414 may not take this course for credit.

COEN 315 *Digital Electronics* (3.5 credits)
Prerequisite: ELEC 311. Analysis and simulation of basic digital circuit blocks, in particular, CMOS, BiCMOS and ECL technologies. The focus is on the electronics aspect of digital circuits. Combinational and sequential circuit units, including logic gates, flip-flops, signal generators, static and dynamic memories, and interconnections. Performance analysis in terms of switching speeds, power dissipation, noise immunity, fan-in and fan-out. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 15 hours total.

COEN 316 *Computer Architecture and Design* (3 credits)

Prerequisite: COEN 311, 312. Review of basic computer architecture designs. Fundamentals of computer design and performance. Cost issues.

Instruction set design principles. Memory hierarchies: registers, caches, and virtual memories. Basic processor implementation issues. High performance computing issues such as pipelining, superscalar, and vector processing. Input/output subsystem designs. Lectures: three hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for COEN 416 may not take this course for credit.

COEN 320 *Introduction to Real-Time Systems* (3 credits)

Prerequisite: COEN 346. Fundamentals of real-time systems: definitions, requirements, design issues and applications. Real-time operating systems (RTOS) feature: multitasking, process management, scheduling, interprocess communication and synchronization, real-time memory management, clocks and timers, interrupt and exception handling, message queues, asynchronous input/output. Concurrent programming languages: design issues and examples, POSIX threads and semaphores. Introduction to real-time uniprocessor scheduling policies: static vs. dynamic, pre-emptive vs. non-pre-emptive, specific techniques — rate-monotonic algorithm, earliest-deadline-first, deadline monotonic, least-laxity-time-first; clock-driven scheduling. Design and specification techniques — Finite state machine based State-chart, Dataflow diagram, Petri nets. Reliability and fault-tolerance. Case studies of RTOS — QNX, VxWorks, and research prototypes. Lectures: three hours per week. Tutorial: one hour per week.

COEN 345 *Software Testing and Validation*
(4 credits)

Prerequisite: SOEN 341. Overview of the three phases and deliverables of a project. Validation vs. verification, reviews, walkthrough. Testing: acceptance testing, integration testing, module testing, etc. Writing stubs, etc. Performance testing. Role of formal methods. Code inspection. Defect tracking. Causality analysis. Software Metrics and quality management. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week.

COEN 346 *Operating Systems* (4 credits)

Prerequisite: COEN 311; COMP 352 or COEN 352. The evolution, architecture, and use of modern operating systems (OS). Multitasking, concurrency and synchronization, IPC, deadlock, resource allocation, scheduling, multithreaded programming, memory and storage managements, file systems, I/O techniques, buffering, protection and security, the client/server paradigm and communications. Introduction to real time operating systems. Students write substantial programs dealing with concurrency and synchronization in a multitasking environment. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week.
NOTE: Students who have received credit for COMP 346 may not take this course for credit.

COEN 352 *Data Structures and Algorithms*
(3 credits)

Prerequisite: COEN 244. Mathematical introduction: mathematical induction, program analysis, and algorithm complexity. Fundamental data structures: lists, stacks, queues, and trees. Fundamental algorithms: hashing and sorting. Graph structures and algorithms. Overview of algorithm design techniques, including greedy algorithms, divide and conquer strategies, recursive and backtracking algorithms, and heuristics. Application of data structures and algorithms to engineering. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for COMP 352 may not take this course for credit.

COEN 390 *Computer Engineering Team Design Project* (3 credits)

Prerequisite: Minimum of 45 credits in BEng (Computer); COEN 244, 311; ENCS 282; ENGR 301. The Team Design Project introduces students to teamwork, project management, engineering design for a complex problem, technical writing and technical presentation in a team environment. Students will be assigned to teams and each team will design and build a device defined by the Department. Students will present their design and demonstrate that their device works in a competition at the end of the term. Tutorial: two hours per week. Equivalent laboratory time: six hours per week.

NOTE: All written documentation must follow the Concordia Form and Style guide. Students are responsible for obtaining this document before beginning the project.

COEN 417 *Microprocessor Systems*
(4 credits)

Prerequisite: COEN 311, 312. Introduction to microprocessor interfacing. Bus functions, bus interconnections, synchronous and asynchronous bus. Signal flow and data transfer, decoding for I/O and memory, memory organization and structures. Interfacing examples; parallel interfacing, serial interfacing, the interrupt system; bus arbitration and DMA. Analog-to-digital and digital-to-analog structures and interfacing. Floppy disc and CRT controllers; bus standards; local area networks. Benchmarking and comparative study of recent microprocessors. Lectures: three hours per week. Laboratory: 30 hours total.

COEN 421 *Embedded Systems and Software Design* (4 credits)

Prerequisite: COEN 320, 417; SOEN 341. Introduction to real-time modelling languages. Introduction to embedded systems design using a unified view of software and hardware. Processor technologies: general purpose, single purpose, application-specific. Memory. Interfacing. Design technologies: hardware-software co-design/co-synthesis/co-simulation. Real-time debugging and monitoring techniques. Real-time communication protocols. Introduction to clock

synchronization and group communication techniques. A multi-component project provides a hands-on experience in designing, implementing, and testing a real-time embedded system.

Lectures: three hours per week. Laboratory: 30 hours total.

COEN 432 *Applied Genetic and Evolutionary Systems* (3 credits)

Prerequisite: COEN 352 or COMP 352. Motivation for the use of Genetic Algorithms (GAs). Theory: the Schema Theorem, the K-armed Bandit, the Building Block Hypothesis, the Idealized GA and comparison of GAs. Methodology: representation, fitness and selection, crossover and mutation, parameterization and constraints, implementation. Applications: function optimization, evolving computer programs, optimizing a pattern recognizer, system modelling. Identification of classes of problems suitable for the use of GAs. Lectures: three hours per week.

COEN 445 *Communication Networks and Protocols* (4 credits)

Prerequisite: COEN 346. Network topologies. Communications protocols basics. Local Area Networks (LANs). Wide Area Networks (WANs). Layered architecture standards (OSI and TCP/IP) and protocols. Internetworking. Lectures: three hours per week. Laboratory: 30 hours total.

NOTE: Students who have received credit for ELEC 463 may not take this course for credit.

COEN 451 *VLSI Circuit Design* (4 credits)

Prerequisite: COEN 312 or COMP 327; ELEC 311. Analysis and design of electronic circuits using Very Large Scale Integration (VLSI) technologies. Physical design of MOS digital circuits. CMOS circuit schematic and layout. CMOS processing technology, design rules and CAD issues. Physical layers and parasitic elements of CMOS circuits. Characterization and performance evaluation. Constraints on speed, power dissipation and silicon space consumption. Design and implementation of CMOS logic structures, interconnections and I/O structures. Circuit design project using a specified CMOS technology. Lectures: three hours per week. Laboratory: two hours per week.

COEN 490 *Capstone Computer Engineering Design Project* (4 credits)

Prerequisite: Minimum of 75 credits in BEng (Computer) or permission of the Department; ENGR 371; COEN 352, 390; ELEC 311 or SOEN 341. Students are assigned to groups, and work together under faculty supervision to solve a complex interdisciplinary design problem — typically involving communications, control systems, electromagnetics, power electronics, software design, and/or hardware design. The project fosters teamwork between group members and allows students to develop their project management, technical writing, and technical presentation skills. Tutorial: one hour per week,

two terms. Equivalent laboratory time: four hours per week, two terms.

NOTE: All written documentation must follow the Concordia Form and Style guide. Students are responsible for obtaining this document before beginning the project.

COEN 498 *Topics in Computer Engineering* (3 credits)

Prerequisite: Permission of the Department. The course, when offered, will include topics which complement elective courses in computer engineering and computer science. Lectures: three hours per week.

ELECTRICAL ENGINEERING

ELEC 251 *Fundamentals of Applied Electromagnetics* (3 credits)

Prerequisite: ELEC 273 or ENGR 273; ENGR 233 previously or concurrently. Electric charge, Coulomb's law, electrostatic forces, electric field, Gauss' law, electric potential, stored energy. Dielectrics, properties of materials in electric fields. Electric current, conduction in a vacuum and in material media, displacement current, magnetic field of a current, force on a current-carrying wire, magnetic induction, electromotive force, energy stored in a magnetic field. Magnetism in material media, magnetic circuits. Time-varying fields. Capacitance, resistance, inductance, elements of electric circuits. Lectures: three hours per week. Tutorial: one hour per week.

ELEC 261 *Complex Variables for Electrical and Computer Engineers* (3 credits)

Prerequisite: COEN 231; ENGR 213. Algebra of complex numbers; functions and inverse functions of complex variables. Derivatives and Cauchy-Reimann conditions. Analytic and harmonic functions. Exponential, trigonometric, hyperbolic, and logarithmic functions. Complex line integrals, Cauchy-Goursat theorem, Cauchy integral formula. Taylor and Laurent series. Residue theorem. Applications to signals and systems: the Laplace transform; linear difference equations and their solution using Z transforms. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for EMAT 252 may not take this course for credit.

ELEC 264 *Signals and Systems I* (3 credits)

Prerequisite: ELEC 273; ENGR 213. Continuous-time and discrete-time signals and systems. Linear Time Invariant (LTI) systems. Convolution-sum and convolution-integral representation of systems. Causal LTI systems. Fourier series representation of continuous-time and discrete-time periodic signals. Filters described by differential or difference equations. The continuous-time Fourier transform. Systems based on linear constant-coefficient differential equations. The discrete-time Fourier

transform. Systems based on linear constant-coefficient difference equations. Computer-based simulation. Lectures: three hours per week.

Tutorials: two hours per week.

NOTE: Students who have received credit for ELEC 361 may not take this course for credit.

ELEC 273 *Basic Circuit Analysis* (3.5 credits)

Prerequisite: ENGR 213 previously or concurrently; PHYS 205. Units: current, voltage, power, and energy. Elementary wave-forms. Time averages. Ohm's law. KVL and KCL. Ideal sources. Mesh and node analysis of resistive circuits. Network theorems. Inductors and capacitors and their response to the application of elementary waveforms. Transient response of simple circuits. Natural frequency and damping. Initial conditions. Steady state AC analysis: resonance, impedance, power factor. Introduction to three phase power, delta and Y connections. Ideal operational amplifiers. Ideal transformers. Lectures: three hours per week. Tutorial: two hours per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENGR 273 may not take this course for credit.

ELEC 275 *Principles of Electrical Engineering* (3.5 credits)

Prerequisite: ENGR 213 previously or concurrently; PHYS 205. Fundamentals of electric circuits: Kirchhoff's laws, voltage and current sources, Ohm's law, series and parallel circuits. Nodal and mesh analysis of DC circuits. Superposition theorem, Thevenin and Norton Equivalents. Use of operational amplifiers. Transient analysis of simple RC, RL and RLC circuits. Steady state analysis: Phasors and impedances, power and power factor. Single and three phase circuits. Magnetic circuits and transformers. Power generation and distribution. Lectures: three hours per week. Tutorial: two hours per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENGR 275 may not take this course for credit.

ELEC 311 *Electronics I* (4 credits)

Prerequisite: ELEC 273 or ENGR 273. Diodes: the ideal diode; terminal characteristics of junction diodes; analysis of diode circuits; the small signal model and its application; operation in the reverse-breakdown region — Zener diodes; rectifier circuits; limiting and clamping circuits. Bipolar junction transistors: structure and physical operation; DC analysis: biasing considerations: small signal analysis and parameters; hybrid π model, T model; common base, common emitter, common collector configurations. Field-effect transistors: structure and physical operation; DC analysis; biasing considerations; small signal analysis and parameters; hybrid π model, T model; common gate, common source, common collector configurations. Lectures: three hours per week. Tutorial: two hours per week. Laboratory: 30 hours total.

ELEC 312 *Electronics II* (4 credits)
 Prerequisite: ELEC 311, 364. Differential and multi-stage amplifiers: differential pair; differential gain; common-mode gain and common-mode rejection ratio (CMRR) current mirrors. High frequency models: s-domain analysis, transfer functions; hybrid π model at high frequency; common base, common emitter, common drain configurations; common gate, common source, common collector configurations; differential BJT pairs at high frequency; MOS differential pair at high frequency. Feedback: general feedback structure; properties of negative feedback; the four basic feedback configurations: series-shunt, series-series, shunt-series; loop gain and stability problems; effect of feedback on amplifier poles; bode plots and frequency compensation. Power amplifiers: classification and output stages; class A, B, C, and AB amplifiers; biasing the class AB amplifier; variations on the class AB configuration; IC power amplifiers and MOS power transistors. Introduction to filters and oscillators. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 30 hours total.

ELEC 321 *Introduction to Semiconductor Materials and Devices*
 (3.5 credits)

Fundamentals underlying optical and electronic devices. The structure and growth of crystals. The energy band model for elemental and compound semiconductors. Electronic and optical properties of semiconductors. Electroluminescence and photoluminescence. The semiconductor in equilibrium. Carrier transport and non-equilibrium phenomena. Introductions to junctions and devices. The laboratory demonstrates the basic electrical and optical properties of semiconductor materials. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: three hours per week, every three weeks.

ELEC 331 *Fundamentals of Electrical Power Engineering* (3.5 credits)

Prerequisite: ELEC 251, 273. Review of fundamentals of AC circuit analysis. Overview of power systems. Three-phase circuits: balanced three-phase circuits with star and delta connected loads, power measurements. Magnetic circuits. Transformers. Power conversion techniques: single phase AC/DC rectifiers, DC/DC choppers and DC/AC converters. DC machines: Operating principle, separately excited DC motor, torque speed characteristics and control methods using rectifiers and choppers. Induction machines: Theory of three-phase induction machines, equivalent circuit parameters, efficiency, torque speed characteristics and control methods using inverters. Overview of power distribution systems. Safety codes. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 15 hours total.

ELEC 351 *Electromagnetic Waves and Guiding Structures* (3 credits)
 Prerequisite: ELEC 251, 365. Maxwell's equations.

Differential forms of the laws of electromagnetism. Boundary conditions. Power and energy. Uniform plane waves. Transmission line theory. Rectangular waveguides. Antennas. Lectures: three hours per week. Tutorial: one hour per week.

ELEC 353 *Transmission Line Circuits and Electromagnetic Waves*
 (3 credits)

Prerequisite: ELEC 264, 273. Transmission lines and high-speed logic design. RF transmission line circuits. Maxwell's equations, plane waves, and antennas. Wireless communications and indoor propagation. Lectures: three hours per week. Tutorial: one hour per week.

ELEC 361 *Signals and Systems* (3 credits)

Prerequisite: ELEC 261. System functions. Impulse response. Convolution. The exponential and trigonometric forms of the Fourier series. Frequency domain plots of Fourier series coefficients. Mean square convergence. Gibbs' phenomenon. The Cauchy limit form of the Fourier transform. Transforms of periodic functions. Relation between the Fourier and Laplace transforms. Frequency domain plots. Difference equations. Relation between the Z transform and the Fourier and Laplace transforms. Unit pulse response. Numerical convolution. Discrete Fourier transform. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for EMAT 312 may not take this course for credit.

ELEC 362 *Partial Differential Equations*
 (3 credits)

Prerequisite: ENGR 213, 233. Partial differential equations. Boundary value problems. Separation of variables. Fourier series solutions in one and two dimensions. Laplace and Poisson equations. One- and two-dimensional wave equations in orthogonal coordinate systems. Scalar and vector potentials and fields. Examples from heat flow, electrostatics and magnetostatics. Bessel and Legendre functions. Power series solutions; method of Frobenius. Numerical solutions of partial differential equations. Applications: vibrating string, vibrating membrane in rectangular and cylindrical coordinates. Sturm-Liouville problem. Eigenvalues and eigenfunctions. Lectures: three hours per week. Tutorial: one hour per week.

NOTE: Students who have received credit for EMAT 332 may not take this course for credit.

ELEC 363 *Fundamentals of Telecommunications Systems* (3.5 credits)

Prerequisite: ELEC 364; ENGR 371. Introduction to basic telecommunications concepts and systems. Analog communications: AM and FM, system level consideration of noise-bandwidth tradeoffs. Digital communications: sampling and quantization, digital modulation techniques, the matched filter. Redundancy encoding. Lectures: three hours per week. Laboratory: 15 hours total.
NOTE: Students who have received credit for ELEC 461 may not take this course for credit.

ELEC 364 *Signals and Systems II* (3 credits)

Prerequisite: ELEC 264. Sampling of continuous-time and discrete-time signals. Reconstruction of a signal from its samples using interpolation. Laplace Transform. Inverse Laplace Transform. Analysis of systems using Laplace Transform. Unilateral Laplace Transform. The Z-Transform and inverse Z-Transform. Analysis of systems using Z-Transform. Unilateral Z-Transform. Time and frequency characteristics of signals and systems. Examples of continuous-time and discrete-time first and second-order systems. Amplitude modulation and demodulation. Pulse-amplitude modulation. Frequency modulation. Computer-based simulation. Lectures: three hours per week. Tutorial: one hour per week. *NOTE: Students who have received credit for ELEC 361 may not take this course for credit.*

ELEC 365 *Complex Variables and Partial Differential Equations* (3 credits)

Prerequisite: ENGR 213, 233. Review of complex arithmetic. Analytic functions. Taylor and Laurent series. Residue theory. Fourier series. Partial differential equations. Applications to Laplace, heat, and wave equations. Bessel and Legendre functions. Lectures: three hours per week. Tutorial: one hour per week. *NOTE: Students who have received credit for ELEC 261 or 362 may not take this course for credit.*

ELEC 370 *Modelling and Analysis of Physical Systems* (3.5 credits)

Prerequisite: ELEC 364 previously or concurrently. Definition and classification of physical systems. Definition of through and across variables. Modelling of system components: electrical, mechanical, fluid, and thermal. Limits of linear models and linear representations of nonlinear components. Modelling of systems including mixed systems. Analysis techniques: review of first and second order systems; mesh and nodal analysis in the Laplace transform domain; impedance and transfer functions; two-port parameters; indefinite admittance matrix; signal flow graphs; identification of analysis techniques used for SPICE. Fundamentals of frequency response: introduction to filters; Butterworth and Chebyshev filter functions. Introduction to state variable analysis. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: 15 hours total. *NOTE: Students who have received credit for ENGR 370 or MECH 370 may not take this course for credit.*

ELEC 372 *Fundamentals of Control Systems* (3.5 credits)

Prerequisite: ELEC 370. Mathematical models of control systems. Characteristics, performance, and stability of linear feedback control systems. Root-locus methods. Frequency response methods. Stability in the frequency domain. Design and compensation of feedback control systems. Lectures: three hours per week. Tutorial: one

hour per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENGR 372 or MECH 371 may not take this course for credit.

ELEC 390 *Electrical Engineering Team Design Project* (3 credits)

Prerequisite: Minimum of 45 credits in BEng (Electrical); COEN 244; ELEC 311; ENCS 282; ENGR 301. The Team Design Project introduces students to teamwork, project management, engineering design for a complex problem, technical writing and technical presentation in a team environment. Students will be assigned to teams and each team will design and build a device defined by the Department. Students will present their design and demonstrate that their device works in a competition at the end of the term. Tutorial: two hours per week. Equivalent laboratory time: six hours per week. *NOTE: All written documentation must follow the Concordia Form and Style guide. Students are responsible for obtaining this document before beginning the project.*

ELEC 421 *Solid State Devices* (3.5 credits)

Prerequisite: ELEC 321. Junction theory (PN junctions, Schottky and ohmic contacts, hetero-junctions). Diodes and bipolar transistors. Light-emitting diodes, photodetectors, solar cells, and fibre optics. Lasers: operating principles and applications in optoelectronic devices. Planar silicon junctions and transistors will be designed, fabricated and evaluated in the laboratory, including resistivity measurements, semiconductor cleaning, oxidation, diffusion, photolithography, etching, metallization, and comparison of design with experimental results. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 422 *Design of Integrated Circuit Components* (3.5 credits)

Prerequisite: ELEC 421. Structures, characteristics and design of MOS capacitors and MOSFETs. Structures, characteristics and design of laser diodes. Optoelectronic devices and integrated circuits. Planar MOS devices, including capacitors and MOSFETs will be designed, fabricated, and evaluated in the laboratory. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 424 *VLSI Process Technology* (3.5 credits)

Prerequisite: ELEC 311, 321. Introduction to basic VLSI technologies; crystal growth, thermal oxidation, diffusion, ion implantation, chemical vapour deposition, wet and dry etching, and lithography. Layout, yield, and VLSI process integration. The lab demonstrates a semiconductor device fabrication process. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 425 *Optical Devices for High-Speed Communications* (3.5 credits)

Prerequisite: ELEC 321, 351. Optical properties

of semiconductors. Fundamental principles for understanding and applying optical fibre technology. Fundamental behaviour of the individual optical components and their interactions with other devices. Lasers, LEDs, optical fibres, light detectors, optical switches. Concepts of WDM and DWDM. Components required for WDM and DWDM. A comprehensive treatment of the underlying physics: noise and distortion in optical communications, light polarization, modulation and attenuation. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 430 *Electrical Power Equipment*
(3.5 credits)

Prerequisite : ELEC 331. Components of a transmission system. Transmission line; modelling and parameters. Transformers: equivalent circuits, losses, connections and protection. Breakers: operation and design. Compensation equipment: capacitors, inductors, series and shunt connections. Insulation coordination. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: This course is usually offered in the French language.

ELEC 431 *Electrical Power Systems*
(3.5 credits)

Prerequisite: ELEC 331. Inductance, capacitance, resistance of polyphase transmission lines; current and voltage relations of transmission lines; load flow studies; symmetrical and unsymmetrical faults; power system stability. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 432 *Control of Electrical Power Conversion Systems*
(3.5 credits)

Prerequisite: ELEC 372 or ENGR 372; ELEC 331. Basic considerations and control requirements. Control system principles and structures. Controller characteristics and operation. Static power conversion systems. Electromechanical systems and electrical machine modelling. Control system design. Applications to electric motor drives and typical power conversion systems. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: This course is usually offered in the French language.

ELEC 433 *Power Electronics* (3.5 credits)

Prerequisite: ELEC 311, 331. Review of basic electrical concepts. Power electronic systems. Power semiconductor switches. AC controllers. Line frequency AC-DC converters: diodes and thyristor circuits. DC-DC converters. DC-AC converters. Utility applications: STATCOM and power electronic interfaces. Industrial and utility applications. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 434 *Behaviour of Power Systems*
(3.5 credits)

Prerequisite: ELEC 331. Introduction: classifica-

tion of phenomena, structure of power systems. Review of component models: lines, transformers, electrical machines and load. Excitation systems of machines. Steady-state operation. Transient stability, voltage stability and small signal stability. Compensation methods: stabilizer, series and shunt compensators. Sub-synchronous resonances. Transient electromagnetic phenomena. Methods and tools for numerical simulation. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: This course is usually offered in the French language.

ELEC 435 *Electromechanical Energy Conversion Systems*
(3.5 credits)

Prerequisite: ELEC 331. Lumped parameter concepts of electromechanics. Energy, co-energy in the derivation of torques and forces. Examples of electric machines: dc, synchronous and induction types. Steady-state, transient and stability analysis. Power electronic controllers. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 436 *Protection of Power Systems*
(3.5 credits)

Prerequisite: ELEC 331. General aspects of protection systems. Measurement transformers. Grounding. Overcurrent and ground fault protection. Protection of transformers, shunt capacitors and buses. Protection of transmission lines. Telecommunication for protection and automation systems. Protection of inverters. Protection of distribution networks. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: This course is usually offered in the French language.

ELEC 438 *Industrial Electrical Systems*
(3.5 credits)

Prerequisite: ELEC 331. Structures of industrial power systems. Voltage levels. Electric installations, codes and standards. Short-circuits, protection and coordination. Grounding. Power quality. Power factor, tariffs and energy management. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: This course is usually offered in the French language.

ELEC 441 *Modern Analog Filter Design*
(3.5 credits)

Prerequisite: ELEC 370 or ENGR 370. Two-port networks and parameters. Magnitude and phase approximation. Butterworth and Chebyshev filters. Realization of high-order transfer functions. GIC and FDNR second order active RC filters. Op-amp based designs. Monolithic continuous time filter. OTA based designs. Monolithic sampled data filters. Switched capacitor filters. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 442 *Digital Signal Processing*
(3.5 credits)

Prerequisite: ELEC 364. Review of discrete-time

signals and systems; difference equation, the Fourier transform, the z-transform, the discrete Fourier series and transform; recursive and non-recursive digital filters, common digital filter structures, common design approaches for digital filters; A/D and D/A converters, digital processing of analog signals, signal interpolation and decimation; effect of finite word lengths, description of a typical DSP chip. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 453 *Microwave Engineering*
(3.5 credits)

Prerequisite: ELEC 370 or ENGR 370; ELEC 351. Properties of waveguides, striplines, and microstrips. Scattering parameters. Butterworth and Chebyshev impedance transformers. Microwave couplers, cavities, and Fabry-Perot resonators. Periodic structures. Microwave filter design. Faraday rotation and non-reciprocal devices. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 455 *Acoustics* (3 credits)

Prerequisite: ELEC 351. Sound generation and propagation in elastic media; conversion between acoustical, electrical, and mechanical energy. Lumped-parameter approximations, sound in rooms, underwater acoustics, microphones; loudspeakers and audio communications problems; noise and vibration control problems. Lectures: three hours per week.

ELEC 456 *Antennas* (3.5 credits)

Prerequisite: ELEC 351. Antenna fundamentals and definitions. Radiation integrals. Dipoles and loops. Arrays. Antenna self and mutual impedance. Matching techniques. Travelling wave antennas. Broadband antennas. Equivalence principle. Aperture antennas. Antenna measurement techniques. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 457 *Design of Wireless RF Systems* (3 credits)

Prerequisite: ELEC 453. Introduction to wireless systems. Noise and distortion in microwave systems. Antennas and propagation. Amplifiers. Mixers. Transistor oscillators and frequency synthesizers. Modulation techniques. Receiver design. Use of RF CAD tools. Lectures: three hours per week.

ELEC 458 *Techniques in Electromagnetic Compatibility* (3 credits)

Prerequisite: ELEC 351 or 353. Introduction to EMC procedures, control plans, and specifications. Radiated and conducted susceptibility and emission testing. Introduction to EMC antennas, antenna concepts, electric and magnetic dipoles, biconical dipoles, conical log spiral antennas, setting up fields for susceptibility testing, measuring radiation from equipment. Coupled transmission lines, pulse propagation, closely spaced parallel transmission lines, capacitive coupling, inductive coupling, shielding against magnetic fields. Shielding and enclosures, electric and magnetic field

screening mechanisms, shielding effectiveness, grounding considerations. EMC test facilities, screened rooms, TEM cells, signals and spectra, intermodulation, cross-modulation, the spectrum analyser. Noise and pseudo-random noise, noise performance of measurement/receiving systems, noise equivalent bandwidth, noise figure, antenna noise temperature and S/N ratio. Lectures: three hours per week.

ELEC 462 *Digital Communications*
(3.5 credits)

Prerequisite: ELEC 363. Random processes and linear systems; baseband modulation/demodulation, optimal receivers in AWGN, correlation and matched-filter receivers, pulse shaping for band-limited channels; bandpass modulation techniques such as PAM, PSK, DPSK, FSK, QAM; introduction to error control coding, linear block codes, cyclic codes, convolutional codes. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 463 *Telecommunication Networks*
(3 credits)

Prerequisite: ELEC 363. Communication networks and services; introduction to layered network architectures; transmission systems and the telephone network: multiplexing, circuit switches, routing and signalling; peer-to-peer protocols: ARQ protocols, data-link controls, packet multiplexing; multiple access communications: Aloha, CSMA, reservation schemes, polling, token-passing ring, LAN standards, LAN bridges; packet-switching networks: datagrams and virtual circuits; TCP/IP architecture: Internet protocol, transmission control protocol. Lectures: three hours per week. *NOTE: Students who have received credit for COEN 445 may not take this course for credit.*

ELEC 464 *Wireless Communications*
(3 credits)

Prerequisite: ELEC 462. Review of modulation and error control coding. Modulation vs. coding trade-off, communications link analysis. Introduction to cellular systems: frequency reuse, trunking and grade of services, sectoring and cell splitting, coverage and capacity. Modulation techniques for mobile communications. Mobile radio channels. Spread-spectrum techniques. Multiplexing and multiple access techniques. Wireless and cordless standards. Lectures: three hours per week.

ELEC 465 *Networks Security and Management* (3.5 credits)

Prerequisite: COEN 445 or ELEC 463. Network security threats. Importance of security policy. Principles and techniques of encryption and authentication. Network security protocols: X509, IPSEC (Internet Protocol Security Architecture). Network management: issues, architectures, and protocols. Fault management, configuration management, security management, performance management, and accounting management. Management Information Bases (MIBs). SNMP and its evolution. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 466 *Introduction to Optical Communication Systems*
(3.5 credits)

Prerequisite: ELEC 351, 363. Overview of optical fibres and optical fibre communications. Signal propagation in optical fibres: attenuation, chromatic dispersion, mode coupling, and nonlinearities. Optical transmitters' characteristics and requirements for optical networks. Power launching and coupling: optical transmitter-to-fibre coupling, fibre-to-fibre joints, and optical fibre connectors. Optical receivers: basic structures, noise analysis, characteristics and requirements for optical networks. Digital/analog transmissions: link power budget, rise-time budget, line coding, error correction, and noise effects on transmissions. WDM concepts: operation principle of WDM. Optical amplifiers: characteristics and requirements for optical networks, amplifier noise, system applications, and wavelength conversion. Optical networks: basic topologies, SONET/SDH, broadcast-and-select WDM networks, wavelength-routed networks. Optical measurements: test equipments, attenuation/dispersion measurements, OTDR, eye pattern and OSA. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 472 *Advanced Telecommunication Networks* (3.5 credits)

Prerequisite: ELEC 463 or COEN 445. Routing in packet networks, shortest-path algorithms, Internet routing protocols, ATM networks: ATM and ATM adaptation layers, traffic management and QoS, congestion control, ATM signalling, advanced network architectures: classical IP over ATM, MPLS, integrated and differentiated services, mobile communications: wireless transmission, medium access control, GSM system, mobile IP, mobile transport layer and support for mobility. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 481 *Linear Systems* (3.5 credits)

Prerequisite: ELEC 372 or MECH 371 or ENGR 372. Review of matrix algebra. State-space description of dynamic systems: linearity, causality, time-invariance, linearization. Solution of state-space equations. Transfer function representation. Discrete-time models. Controllability and observability. Canonical forms and minimal-order realizations. Stability. Stabilizability and pole placement. Linear quadratic optimal control. Observer design. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENGR 471 may not take this course for credit.

ELEC 482 *System Optimization*
(3.5 credits)

Prerequisite: ENGR 391 or EMAT 391. Linear least squares. Properties of quadratic functions with applications to steepest descent method, Newton's method and Quasi-Newton methods for nonlinear optimization. One-dimensional optimization. Introduction to constrained optimization, including the elements of Kuhn-Tucker

conditions for optimality. Least p^{th} and mini-max optimization. Application of optimization techniques to engineering problems. Lectures: three hours per week. Laboratory: 15 hours total.

NOTE: Students who have received credit for ENGR 472 may not take this course for credit.

ELEC 483 *Real-Time Computer Control Systems* (3.5 credits)

Prerequisite: ELEC 372 or ENGR 372. Introduction to real-time computer control systems; a review of discrete-time signals and systems, difference equations, z-transform; sampled-data systems, sample and hold, discrete models; discrete equivalents of continuous-time systems; stability analysis; design specifications; design using root locus and frequency response methods; implementation issues including bumpless transfer, integral windup, sample rate selection, pre-filtering, quantization effects and computational delay; scheduling theory and priority assignment to control processes, timing of control loops, effects of missed deadlines; principles and characteristics of sensors and devices, embedded processors, processor/device interface. Lectures: three hours per week. Laboratory: 15 hours total.

ELEC 490 *Capstone Electrical Engineering Design Project* (4 credits)

Prerequisite: Minimum of 75 credits in BEng (Electrical) or permission of the Department; ENGR 371; COEN 311; ELEC 361, 390. Students are assigned to groups, and work together under faculty supervision to solve a complex interdisciplinary design problem — typically involving communications, control systems, electromagnetics, power electronics, software design, and/or hardware design. The project fosters teamwork between group members and allows students to develop their project management, technical writing, and technical presentation skills. Tutorial: one hour per week, two terms. Equivalent laboratory time: four hours per week, two terms. *NOTE: All written documentation must follow the Concordia Form and Style guide. Students are responsible for obtaining this document before beginning the project.*

ELEC 498 *Topics in Electrical Engineering* (3 credits)

Prerequisite: Permission of the Department. This course may be offered in a given year upon the authorization of the Electrical and Computer Engineering Department. The course content may vary from offering to offering and will be chosen to complement elective courses available in a given year.

CONCORDIA INSTITUTE FOR AEROSPACE DESIGN AND INNOVATION

IADI 301 *Undergraduate Aerospace Industry Project I* (0 credit)

Prerequisite: Acceptance into CIADI. The activities associated with this course include

participation in regular meetings at the Institute and with faculty and industry members, attendance at training sessions (as applicable), industry training and tours. A project is assigned to the students. Students are also required to prepare and present progress reports on their project. A final report of their project must be submitted to the director of CIADI. A grade of pass with distinction, pass, or fail will be awarded based on the evaluation of the above activities. All students accepted to CIADI are required to register for this non-credit course activity.

IADI 401 *Undergraduate Aerospace Industry Project II* (0 credit)

Prerequisite: Pass with distinction in IADI 301. The activities associated with this course deal with participation in regular meetings at the Institute and with faculty and industry members, attendance at training sessions (as applicable), industry training and tours. A project is assigned to the students. Students are also required to prepare and present progress reports on their project. A final report of their project must be submitted to the director of CIADI. A grade of pass with distinction, pass, or fail will be awarded based on the evaluation of the above activities. Students wishing to use their research and design project for their capstone project (e.g. MECH 490, COEN 490, etc.) must receive written approval from the Capstone Design Project coordinator in their respective department at the commencement of their CIADI project, and meet all requirements set out by both CIADI and their individual department.

INDUSTRIAL ENGINEERING

INDU 211 *Introduction to Production and Manufacturing Systems* (3 credits)

History of industrial engineering. Role of industrial engineers. Types of manufacturing and production systems. Material flow systems. Job design and work measurement. Introduction to solution methodologies for problems which relate to the design and operation of integrated production systems of humans, machines, information, and materials. Lectures: three hours per week.

INDU 311 *Simulation of Industrial Systems* (3.5 credits)

Prerequisite: ENGR 371. Modelling techniques in simulation; application of discrete simulation techniques to model industrial systems; random number generation and testing; design of simulation experiments using different simulation languages; output data analysis. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks. Tutorial: one hour per week.

INDU 320 *Production Engineering I* (3 credits)

Prerequisite: INDU 323. The systems approach to production. Interrelationships among the

component blocks of the system: forecasting, aggregate planning, production, material and capacity planning, operations scheduling. An overview of integrated production planning and control including MRP II, Just in Time manufacturing (JIT). Lectures: three hours per week. Tutorial: one hour per week.

INDU 321 *Production Engineering II* (3 credits)

Prerequisite: INDU 320. Lean fundamentals; lean manufacturing; lean engineering; lean principles, tools and techniques, practices, and implementation; five S's, process analysis/spaghetti charts, value engineering; value stream mapping; standardized work/standard times; set-up reduction/line balancing; unit manufacturing; cell layout/cellular manufacturing; total productive maintenance; kanban; lean supply chain management; transition-to-lean roadmap; people/organizational issues in the lean enterprise; Six Sigma; TOM; agile manufacturing. Lectures: three hours per week. *NOTE: Students who have received credit for INDU 420 may not take this course for credit.*

INDU 323 *Operations Research I* (3 credits)

Prerequisite: ENGR 213, 233. An introduction to deterministic mathematical models with emphasis on linear programming. Applications to production, logistics, and service systems. Computer solution of optimization problems. Lectures: three hours per week. Tutorial: one hour per week.

INDU 324 *Operations Research II* (3 credits)

Prerequisite: INDU 323. Integer programming (IP), including modelling and enumerative algorithms for solving IP problems; post-optimality analysis. Network flows, dynamic programming and non-linear programming. Applications in the design and operation of industrial systems. Lectures: three hours per week. *NOTE: Students who have received credit for INDU 430 may not take this course for credit.*

INDU 330 *Engineering Management* (3 credits)

Organizational structures, their growth and change. Motivation, leadership, and group behaviour. Design of alternatives for improving organizational performance and effectiveness. Planning, organization and management of engineering projects. Management for total quality. Lectures: three hours per week.

INDU 371 *Stochastic Models in Industrial Engineering* (3 credits)

Prerequisite: ENGR 371. Overview of probability theory; probability distributions; exponential model and Poisson process; discrete-time and continuous-time Markov chains; classification of states; birth and death processes; queuing theory. Application to industrial engineering problems. Lectures: three hours per week. *NOTE: Students who have received credit for INDU 471 may not take this course for credit.*

INDU 372 *Quality Control and Reliability*
(3 credits)

Prerequisite: ENGR 371. Importance of quality; total quality management; statistical concepts relevant to process control; control charts for variables and attributes; sampling plans. Introduction to reliability models and acceptance testing; issues of standardization. Lectures: three hours per week. Tutorial: one hour per week.

INDU 410 *Safety Engineering* (3.5 credits)

Prerequisite: MECH 311. Engineering design for the control of workplace hazards. Occupational injuries and diseases. Codes and standards. Workplace Hazardous Materials Information Systems (WHMIS). Hazard evaluation and control. Design criteria. Risk assessment. Safety in the manufacturing environment. Applications in ventilation, air cleaning, noise and vibration. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

INDU 411 *Computer Integrated Manufacturing* (3.5 credits)

Prerequisite: MECH 311. Concepts and benefits of computer integrated manufacturing (CIM). Design for manufacturing. Computer-aided design, process planning, manufacturing (computer numerical control parts programming), and inspection. Robots in CIM. Production planning and scheduling in CIM. System integration. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

INDU 412 *Human Factors Engineering*
(3.5 credits)

Prerequisite: ENGR 371. Elements of anatomy, physiology, and psychology; engineering anthropometry; human capacities and limitations; manual material handling; design of workplaces; human-machines system design; design of controls and displays; shift work. Applications to a manufacturing environment. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

INDU 421 *Facilities Design and Material Handling Systems* (3.5 credits)

Prerequisite: INDU 320. An introduction to planning and design of production and manufacturing. Facility layout and location. Material handling systems and equipment specifications. Computer-aided facilities planning. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

INDU 423 *Inventory Control* (3.5 credits)

Prerequisite: INDU 320. Inventory analysis and control systems; the role of forecasting in controlling inventories; the role of inventories in physical distribution; supply chain management; work in process inventories; inventory in just-in-time manufacturing systems. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

INDU 440 *Product Design and Development* (3 credits)

Prerequisite: MECH 311. Development processes and organizations, product planning, identifying customer needs, product specifications, concept generation, concept selection, concept testing, product architecture, industrial design, design for manufacturing, prototyping robust design, patents and intellectual property. Lectures: three hours per week.

INDU 466 *Decision Models in Service Sector* (3 credits)

Prerequisite: ENGR 371; INDU 320. Introduction to service strategy and operations. Service demand forecasting and development of new services. Service facility location and layout planning. Applications of decision models in service operations and service quality control. Cost analysis, queuing models, risk management and resource allocation models for service decisions. Service outsourcing and supply chain issues. Efficiency and effectiveness issues in different service sectors such as emergency force deployment, municipal resource allocation and health care. Case studies using operations research, operations management, and statistical techniques. Lectures: three hours per week.

INDU 475 *Advanced Concepts in Quality Improvement* (3 credits)

Prerequisite: INDU 372. Statistical experimental design issues such as randomized blocks, factorial designs at two levels, applications on factorial designs, building models, Taguchi methods. Lectures: three hours per week.

INDU 490 *Capstone Industrial Engineering Design Project* (4 credits)

Prerequisite: 75 credits in the program; ENCS 282; ENGR 301; INDU 421 previously or concurrently. A supervised design, simulation or experimental capstone design project including a preliminary project proposal with complete project plan and a technical report at the end of the Fall Term; a final report by the group and individual oral presentation at the end of the Winter Term. Lectures: one hour per week, one term. Equivalent laboratory time: three hours per week, two terms.

NOTE: Students will work in groups under direct supervision of a faculty member.

NOTE: Students who have received credit for INDU 480 may not take this course for credit.

INDU 498 *Topics in Industrial Engineering*
(3 credits)

Prerequisite: Permission of the Department chair. This course may be offered in a given year upon the authorization of the Mechanical and Industrial Engineering Department. The course content may vary from offering to offering and will be chosen to complement the elective courses available in the Industrial Engineering program. Lectures: three hours per week.

MECHANICAL ENGINEERING

MECH 211 *Mechanical Engineering Drawing* (3.5 credits)

Introduction to graphic language and design — means and techniques. The third and the first angle projections. Orthographic projection of points, lines, planes and solids. Principal and auxiliary views. Views in a given direction. Sectional views. Intersection of lines, planes and solids. Development of surfaces. Drafting practices. Dimensioning, fits and tolerancing. Computer-aided drawing and solid modelling. Working drawings — detail and assembly drawing. Design practice. Machine elements representation. Lectures: three hours per week. Tutorial: two hours per week — includes learning of a CAD software. Laboratory: two hours per week, alternate weeks.

MECH 215 *Programming for Mechanical and Industrial Engineers* (3.5 credits)

Prerequisite: MATH 204 (Cegep mathematics 105). Writing programs using assignment and sequences. Variables and types. Operators and expressions. Conditional and repetitive statements. Input and output. File access. Functions. Program structure and organization. Pointers and dynamic memory allocation. Introduction to classes and objects. Mechanical and industrial engineering applications. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: one hour per week.

MECH 221 *Materials Science* (3 credits)
Prerequisite: CHEM 205 (Cegep Chemistry 101). Relationships between properties and internal structure, atomic bonding; molecular, crystalline and amorphous structures, crystalline imperfections and mechanisms of structural change. Microstructures and their development from phase diagrams. Structures and mechanical properties of polymers and ceramics. Thermal, optical, and magnetic properties of materials. Lectures: three hours per week. Tutorial: one hour per week.

MECH 311 *Manufacturing Processes* (3.75 credits)

Prerequisite: MECH 313. Fundamentals of manufacturing processes and their limitations, metrology, machine shop practice, safety and health considerations, forming, conventional machining and casting processes, welding and joining, plastic production, and non-conventional machining techniques. Sustainable technologies. Laboratory includes instruction and practice on conventional machine tools and a manufacturing project. Lectures: three hours per week. Tutorial: two hours per week, including industrial visits and field trips to local industries. Laboratory: three hours per week, alternate weeks.

MECH 313 *Machine Drawing and Design* (3 credits)

Prerequisite: MECH 211. Introduction to engi-

neering design and design process. Problem definition, solution formulation, model development and collaboration aspects of design process. The use of drawings and other graphical methods in the process of engineering design. Industrial standards and specifications, design of fits, linear and geometrical tolerances. Design projects based on design philosophies will involve design and selection of many standard machine components like mechanical drives, cams, clutches, couplings, brakes, seals, fasteners, springs, and bearings. Drawing representation of standard components. Design projects are an integral part of this course. Lectures: three hours per week. Tutorial: two hours per week.

MECH 321 *Properties and Failure of Materials* (3.5 credits)

Prerequisite: MECH 221. The service capabilities of alloys and their relationship to microstructure as produced by thermal and mechanical treatments; tensile and torsion tests; elements of dislocation theory; strengthening mechanisms; composite materials. Modes of failure of materials; fracture, fatigue, wear, creep, corrosion, radiation damage. Failure analysis. Material codes; material selection for design. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 343 *Theory of Machines I* (3.5 credits)

Prerequisite: ENGR 213, 233, 243. Introduction to mechanisms; position and displacement; velocity; acceleration; synthesis of linkage; robotics; static force analysis; dynamic force analysis; forward kinematics and inverse kinematics; introduction to gear analysis and gear box design; kinematic analysis of spatial mechanisms. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks. *NOTE: Students who have received credit for MECH 341 may not take this course for credit.*

MECH 344 *Machine Element Design* (3 credits)

Prerequisite: ENGR 244; MECH 313; MECH 321, 343 previously or concurrently. Introduction to machine design; static failure theories; failure of ductile vs. brittle materials under static loading. Fatigue failure theories; fatigue loads; notches and stress concentrations; residual stresses; designing for high cycle fatigue. Design of shafts, keys and couplings. Design of spur gears. Spring design. Design of screws and fasteners. Design of bearings. Case studies. Lectures: three hours per week. Tutorial: two hours per week. *NOTE: Students who have received credit for MECH 441 may not take this course for credit.*

MECH 351 *Thermodynamics II* (3.5 credits)

Prerequisite: ENGR 251. Brief review of ideal gas processes. Semi-perfect gases and the gas tables. Mixtures of gases, gases and vapours, air conditioning processes. Combustion and combustion equilibrium. Applications of thermo-

dynamics to power production and utilization systems: study of basic and advanced cycles for gas compression, internal combustion engines, power from steam, gas turbine cycles, and refrigeration. Real gases. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 352 *Heat Transfer I* (3.5 credits)
Prerequisite: ENGR 361; ENGR 311 or MECH 333. Analytical and numerical methods for steady-state and transient heat conduction. Empirical and practical relations for forced- and free-convection heat transfer. Radiation heat exchange between black bodies, and between non-black bodies. Gas radiation. Solar radiation. Effect of radiation on temperature measurement. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 361 *Fluid Mechanics II* (3.5 credits)
Prerequisite: ENGR 361. Selected solutions of the Navier-Stokes equations. Introduction to turbulent flow. Fully developed pipe and duct flows, major and minor losses, flow measurement. Euler equations, potential flows, superposition of elementary plane flows. Boundary layers, flow about immersed bodies. Propagation of sound waves, isentropic flow of ideal gases in one dimension, stagnation properties, normal shocks. Introduction to open channel flows. Laboratory experiments: flow visualization, laminar and turbulent pipe flows, lift and drag of airfoils, Stokes' flow, numerical solution of potential flows. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 370 *Modelling, Simulation and Control Systems* (3.5 credits)
Prerequisite: ENGR 311 or MECH 333 previously or concurrently; ENCS 245 or ENGR 245 or ENGR 243; ENGR 275 or ELEC 275. Definition and classification of dynamic systems and components. Modelling of system components: mechanical, electromechanical, and electro-hydraulic systems. Nonlinear systems and linear representations of nonlinear components. Time domain analysis. Transfer function models. Transient and steady-state characteristics of dynamic systems. State variable models. Block diagrams and signalflow graphs. Characteristics and performance of linear feedback control systems. System stability. Simulation techniques using Matlab/Simulink. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.
NOTE: Students who have received credit for ENGR 370 or ELEC 370 may not take this course for credit.

MECH 371 *Analysis and Design of Control Systems* (3.75 credits)
Prerequisite: MECH 370 or ENGR 370. Stability of linear feedback systems. Root-Locus method. Frequency response concepts. Stability in the

frequency domain. Feedback system design using Root Locus techniques. Compensator concepts and configurations. PID-controller design. Simulation and computer-aided controller design using Malab/Simulink. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: three hours per week, alternate weeks.
NOTE: Students who have received credit for ENGR 372 or ELEC 372 may not take this course for credit.

MECH 373 *Instrumentation and Measurements* (3.5 credits)
Prerequisite: ENGR 370 or MECH 370. Unified treatment of measurement of physical quantities; static and dynamic characteristics of instruments — calibration, linearity, precision, accuracy, and bias and sensitivity drift; sources of errors; error analysis; experiment planning; data analysis techniques; principles of transducers; signal generation, acquisition and processing; principles and designs of systems for measurement of position, velocity, acceleration, pressure, force, stress, temperature, flow rate, proximity detection, etc. The course includes demonstration of various instruments. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 412 *Computer-Aided Mechanical Design* (3.5 credits)
Prerequisite: MECH 313. Introduction to computational tools in the design process. Introduction to the fundamental approaches to computer-aided geometric modelling, physical modelling and engineering simulations. Establishing functions and functional specifications with emphasis on geometric tolerancing and dimensioning, manufacturing and assembly evaluation. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 413 *Theory of Machines II* (3.5 credits)
Prerequisite: MECH 343. Spur gears; helical, worm and bevel gears; gear trains, design and analysis; cam design; balancing of machinery; theory of flywheel; theory of universal joints; theory of friction. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.
NOTE: Students who have received credit for MECH 342 may not take this course for credit.

MECH 415 *Advanced Programming for Mechanical and Industrial Engineers* (3 credits)
Prerequisite: MECH 215. Class definitions. Designing classes and member functions. Constructors and destructors. Class libraries and their uses. Input and output. Data abstraction and encapsulation. Introduction to software engineering. Computer graphics and visualization. Numerical methods. Advanced mechanical and industrial engineering applications. This course includes a substantial project. Lectures: three

hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for MECH 216 may not take this course for credit.

MECH 421 *Mechanical Shaping of Metals and Plastics* (3.5 credits)

Prerequisite: MECH 221. Metal forming: extrusion, forging, rolling, drawing, pressing, compacting; shear line theory, sheet forming limits. Metal cutting, machinability, tooling. Plastics shaping: extrusion, moulding, vacuum forming. Consideration of the mechanical parameters critical for process control and computer applications. Interaction of materials characteristics with processing to define product properties: cold working, annealing, hot working, super plasticity, thermomechanical treatment. Energy conservation, safety, product quality, and liability. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 422 *Mechanical Behaviour of Polymer Composite Materials* (3 credits)

Prerequisite: ENGR 244; MECH 221. General applications of polymer composite materials in aircraft, aerospace, automobile, marine, recreational, and chemical processing industries. Mechanics of a unidirectional lamina. Transformation of stress, strain, modulus, and compliance. Off-axis engineering constants, shear and normal coupling coefficients. In-plane and flexural stiffness and compliance with different laminates, including cross-ply, angle-ply, quasi-isotropic, and general bidirectional laminates. Hygrothermal effects. Strength of laminates and failure criteria. Micromechanics. Lectures: three hours per week.

MECH 423 *Casting, Welding, Heat Treating, and Non-Destructive Testing* (3.5 credits)

Prerequisite: MECH 221. Comparative analysis of the various techniques of casting, welding, powder fabrication, finishing, and non-destructive testing. Consideration of the control parameters that are essential to define both automation and robot application. Materials behaviour which determines product micro-structure and properties. Technology and theory of solidification, normalizing, quenching, surface hardening, tempering, aging, and thermomechanical processing for steels, cast irons and Al, Cu, Ni and Ti alloys. Energy conservation, worker safety, quality control, and product liability. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 424 *MEMS — Design and Fabrication* (3.5 credits)

Prerequisite: MECH 311, 343. Introduction to microsystems and devices; mechanical properties of materials used in microsystems; microfabrication and post-processing techniques; sacrificial and structural layers; lithography, deposition and

etching; introduction and design of different types of sensors and actuators; micromotors and other microdevices; mechanical design, finite element modelling; design and fabrication of free-standing structures; microbearings; special techniques: double-sided lithography, electrochemical milling, laser machining, LIGA, influence of IC fabrication methods on mechanical properties; application examples in biomedical, industrial, and space technology areas; integration, bonding and packaging of MEMS devices. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 425 *Manufacturing of Composites* (3.5 credits)

Prerequisite: MECH 311. Fibres and resins. Hand lay up. Autoclave curing. Compression molding. Filament winding. Resin transfer molding. Braiding. Injection molding. Cutting. Joining. Thermoset and thermoplastic composites. Process modelling and computer simulation. Non-destructive evaluation techniques. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 426 *Stress and Failure Analysis of Machinery* (3 credits)

Prerequisite: ENGR 244. Analysis of stresses, strains and deformations in machine elements; non-symmetric bending of beams; shear centre for thin-walled beams; curved beams; torsion of non-circular shafts and tubes; thick wall cylinders; plates and shells; contact elements; stress concentrations; energy methods; failure modes, analysis and prevention; buckling, fracture, fatigue and creep. Lectures: three hours per week.

MECH 431 *Principles of Aeroelasticity* (3 credits)

Prerequisite: ENGR 243; ENGR 311 or MECH 333. Aerodynamic loading of elastic airfoils. Phenomenon of divergence. Effect of flexible control surface on divergence of main structure. Divergence of one- and two-dimensional wing models. Phenomenon of flutter. Flutter of two- and three-dimensional wings. Flutter prevention and control. Panel flutter in high speed vehicles, flutter of turbomachine bladings, galloping vortex-induced oscillations, bridge buffeting. Lectures: three hours per week.

MECH 443 *Mechanical Vibrations* (3.5 credits)

Prerequisite: ENGR 311 or MECH 333; ENGR 370 or ELEC 370 or MECH 370; MECH 343. Transient vibrations under impulsive shock and arbitrary excitation: normal modes, free and forced vibration. Multi-degree of freedom systems, influence coefficients, orthogonality principle, numerical methods. Continuous systems; longitudinal torsional and flexural free and forced vibrations of prismatic bars. Lagrange's equations. Vibration measurements. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks.

MECH 444 Guided Vehicle Systems
(3 credits)

Prerequisite: MECH 443. Definition and classification of guided transportation systems. Track characterization: alignment, gage, profile, and cross-level irregularities. Wheel-rail interactions: rolling contact theories, creep forces. Modelling of guided vehicle components: wheel set, suspension, truck and car body configurations, suspension characteristics. Performance evaluation: stability hunting, ride quality. Introduction to advanced vehicles. Lectures: three hours per week.

MECH 446 Process Equipment Design
(3 credits)

Prerequisite: MECH 321. Design of pressure vessels, towers, reactors, tanks, heat exchangers, piping systems, etc. as used in the petro-chemical, power generation, pulp and paper, and related industries. Compliance with pertinent codes and regulations; detailed analysis of shells, formed heads, flat closures; expansion stresses; wind and earthquake effects. Application to actual problems from industry. Lectures: three hours per week.

MECH 447 Fundamentals of Vehicle System Design (3.5 credits)

Prerequisite: MECH 343. Mechanics and construction of wheels and tires: rolling resistance, tractive and braking forces, brake system design: components of mechanical, hydraulic and pneumatic brake systems, braking efficiency, antilock braking devices, performance characteristics of road vehicles: transmission design, driving condition diagrams, acceleration, speed and stopping distance, gradability, steering mechanisms: design and kinematics, suspension spring and shock absorbers: anti-roll and anti-pitch devices, chassis and body design considerations. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 448 Vehicle Dynamics (3 credits)

Prerequisite: MECH 447 previously or concurrently. Tire-terrain interactions; side-slip, cornering and aligning properties of tires; camber angle and camber torque; estimation of braking/tractive and cornering forces of tires; steady-state handling of road vehicles; steering response and directional stability; handling and directional response of vehicles with multiple steerable axles; handling of articulated vehicles; handling and directional response of tracked and wheeled off-road vehicles; directional response to simultaneous braking and steering. Lectures: three hours per week.

MECH 452 Heat Transfer II (3.5 credits)

Prerequisite: MECH 351, 352, 361. Heat exchangers. Condensation and boiling heat transfer. Principles of forced convection. Analysis of free convection from a vertical wall. Correlations for free convection in enclosed spaces. Mass transfer. Special topics of heat transfer. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 453 Heating, Ventilation and Air Conditioning Systems
(3 credits)

Prerequisite: MECH 352. Heating and cooling load calculation. Overview of heating and air conditioning systems. Review: Vapour compression refrigeration cycles, refrigerant properties, psychometrics. Performance characteristic of components: evaporators, condensers, compressors, throttling devices (expansion valves, capillary tubes). System performance characteristics: calculation of system operating conditions based on the capacities of its components and outdoor and indoor conditions. Controls: operational, capacity. Computer-aided design methods. Defrosting. Estimation of energy consumption for heating with heat pumps. Fundamentals of refrigerant piping, water piping, and air distribution systems. Experimental methods for system development. Lectures: three hours per week.

MECH 454 Vehicular Internal Combustion Engines (3 credits)

Prerequisite: MECH 351, 361. Mechanical design of vehicular engines for different applications. Gas exchange and combustion engine processes. Combustion chambers design. Fuels for vehicular engines. Fuel supply, ignition and control systems. Cooling and lubrication of engines. Emissions formation and control. Engines' operational characteristics — matching with vehicles. Enhancement of engine performance. Engine testing. Environmental impact of vehicular engines on global pollution. Recent developments in energy efficient and "clean" engines. Design or calculation project of vehicular engine.

MECH 460 Finite Element Analysis
(3.75 credits)

Prerequisite: ENGR 391 or EMAT 391; ENGR 244 or ENCS 245. Formulation and application of the finite element method to modelling of engineering problems, including stress analysis, vibrations, and heat transfer. Examples illustrating the direct approach, as well as variational and weighted residual methods. Elements and interpolation functions. Meshing effect. Error analysis. One- and two-dimensional boundary value problems. Development of simple programs and direct experience with general purpose packages currently used in industry for design problems. Lectures: three hours per week. Laboratory: three hours per week, alternate weeks.

NOTE: Students who have received credit for ENGR 460 may not take this course for credit.

MECH 461 Gas Dynamics (3.5 credits)

Prerequisite: MECH 361. Review of one-dimensional compressible flow. Normal and oblique shock waves; Prandtl-Meyer flow; combined effects in one-dimensional flow; non-ideal gas effects; multi-dimensional flow; linearized flow; method of characteristics. Selected experiments in supersonic flow, convergent-divergent nozzles,

hydraulic analogue and Fanno tube. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 462 *Turbomachinery and Propulsion* (3 credits)

Prerequisite: MECH 351, 361. Aircraft design process, preliminary sizing and thrust requirements. Rotary and fixed wing aerodynamics and stability. Helicopter configurations. Structure and fatigue design considerations. Review of the gas turbine cycle and components arrangement. Turbo-propulsion: turboprop, turbofan, turbojet and turboshafts. Energy transfer in turbomachines: Euler equation, velocity triangles. Dimensional analysis of turbomachines. Flow in turbomachines. Three-dimensional flow in turbomachines. Mechanisms of losses in turbomachines. Axial-flow turbines and compressors. Centrifugal compressors. Compressor and turbine performance maps; surge and stall. Lectures: three hours per week. Tutorial: one hour per week.

MECH 463 *Fluid Power Control* (3.5 credits)

Prerequisite: ENGR 361; ENGR 372 or ELEC 372 or MECH 371. Introduction to fluid power; pneumatic devices; fluidic devices; hydraulic system components; hydraulic and electro-hydraulic systems; dynamic performance of fluid power systems; fluid logic. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 464 *Aerodynamics* (3 credits)

Prerequisite: MECH 361. Flow conservation equations, incompressible Navier-Stokes equations, inviscid irrotational and rotational flows: the Euler equations, the potential and stream function equations. Dynamics of an incompressible inviscid flow field: the Kelvin, Stokes, and Helmholtz theorems. Elementary flows and their superposition, panel method for non-lifting bodies. Airfoil and wing characteristics, aerodynamic forces and moments coefficients. Incompressible flows around thin airfoils, Biot-Savart law, vortex sheets. Incompressible flow around thick airfoils, the panel method for lifting bodies. Incompressible flow around wings, Prandtl's lifting line theory, induced angle and down-wash, unswept wings, swept wings. Compressible subsonic flow: linearized theory, Prandtl-Glauert equation and other compressibility correction rules, the area rule. Transonic flow: Von Karman's transonic small disturbance equation, transonic full potential equation, supercritical airfoils. Lectures: three hours per week.

MECH 465 *Gas Turbine Design* (3.5 credits)

Prerequisite: MECH 462. Review of turbo-propulsion types and energy transfer in turbomachines. Two- and three-dimensional flow. Lift and drag for airfoils. Cascade tests and correlations. Aerodynamic losses: physics, mechanisms, control of viscous effects. Preliminary and detailed design of turbines and compressors. Structural and thermal design

requirements. Failure considerations: creep, fatigue and corrosion. Performance matching. Combustion and gearbox design. Air and oil systems design requirements. Installations and acoustics. Evolution of design. Recent trends in technologies. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 470 *Industrial Electronics* (3.5 credits)

Prerequisite: ENGR 370 or MECH 370. A survey of electronic components and systems used in industry. Analog devices; the transistor, the operational amplifier and their models. Amplifiers. Digital devices: gates, logic devices. Large scale integrated circuits, microcomputers. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks. *NOTE: Students who have received credit for ELEC 318 or MECH 372 may not take this course for credit.* *NOTE: Electrical Engineering and Computer Engineering students may not take this course for credit.*

MECH 471 *Microcontrollers for Mechatronics* (3.5 credits)

Prerequisite: MECH 372 or MECH 470. Introduction to the concepts and practices of microcontrollers and their application for the control of electromechanical devices and systems. Study of the internal architecture of microcontrollers; programming in assembly language for specific microcontroller functions and controller algorithms; timing of the microcontroller and interfacing with peripheral devices. Students undertake hands-on project work by controlling the position or speed of a DC motor with a feedback sensor. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 472 *Mechatronics and Automation* (3.5 credits)

Prerequisite: MECH 215; MECH 371 previously or concurrently. Design and analysis of mechatronic and automation systems. Selection and integration of actuators, sensors, hardware, and software. Computer vision. Programming and software design for mechatronic systems. Modelling and simulation. Design of logic control systems. Finite state machine methods. Feedback control and trajectory generation. Safety logic systems. Case studies including automation systems, mobile robots, and unmanned vehicle systems. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks. *NOTE: Students who have received credit for INDU 463 may not take this course for credit.*

MECH 473 *Control System Design* (3.5 credits)

Prerequisite: ENGR 372 or ELEC 372 or MECH 371. A course in industrial control design procedures by case study, including practical sensing, control, and actuating elements; opti-

mization of system performance by choice of components and compensation; nonlinearities, introduction to multi-loop systems. Lectures: three hours per week. Tutorial: one hour per week. Laboratory: two hours per week, alternate weeks. *NOTE: Students who have received credit for ENGR 473 may not take this course for credit.*

MECH 474 *Mechatronics* (3.75 credits)
Prerequisite: ENGR 372 or ELEC 372 or MECH 371. Introduction to mechatronics; basic elements of mechatronic systems. Measurement systems: including principles of measurement systems; sensors and transducers; signal conditioning processes and circuits; filters and data acquisition. Actuation systems: mechanical actuation systems and electrical actuation systems. Controllers: control modes; PID controller; performance measures; introduction to digital controllers and robust control. Modelling and analysis of mechatronic systems; performance measures; frequency response; transient response analysis; stability analysis. Lectures: three hours per week. Laboratory: three hours per week, alternate weeks. *NOTE: Students who have received credit for ENGR 475 or MECH 475 may not take this course for credit.*

MECH 480 *Flight Control Systems*
(3.5 credits)
Prerequisite: ENGR 372 or ELEC 372 or MECH 371. Basic flight control and flight dynamics principles. Aircraft dynamic equations and performance data. Implementation of aircraft control: control surfaces and their operations, development of thrust and its control; autopilot systems, their algorithms, dynamics and interaction problems. Flight instruments, principles of operation and dynamics. Cockpit layouts — basic configuration, ergonomic design, control field forces; advanced concepts in instruments, avionics and displays; HUD; flight management systems, and communication equipment. Introduction to flight simulation: overview of visual, audio and motion simulator systems; advanced concepts in flight simulators. Lectures: three hours per week. Laboratory: two hours per week, alternate weeks.

MECH 481 *Materials Engineering for Aerospace* (3 credits)
Prerequisite: MECH 321. Different types of materials used in aerospace. Metals, composites, ceramics. High temperature materials. Failure prediction

and prevention. Modes of material failure, fracture, fatigue, creep, corrosion, impact. Effect of high temperature and multiaxial loadings. Cumulative damage in fatigue and creep. Materials selection. Lectures: three hours per week.

MECH 482 *Avionic Navigation Systems*
(3 credits)
Prerequisite: ENGR 372 or ELEC 372 or MECH 371. Basics of modern electronic navigation systems, history of air navigation, earth coordinate and mapping systems; basic theory and analysis of modern electronic navigation instrumentation, communication and radar systems, approach aids, airborne systems, transmitters and antenna coverage; noise and losses, target detection, digital processing, display systems and technology; demonstration of avionic systems using flight simulator. Lectures: three hours per week.

MECH 490 *Capstone Mechanical Engineering Design Project*
(4 credits)
Prerequisite: 75 credits in the program; ENCS 282; ENGR 301; MECH 311; MECH 441 or 344 previously or concurrently. A supervised design, simulation or experimental capstone design project including a preliminary project proposal with complete project plan and a technical report at the end of the Fall Term; a final report by the group and presentation at the end of the Winter Term. Lectures: one hour per week, one term. Equivalent laboratory time: three hours per week, two terms. *NOTE: Students will work in groups under direct supervision of a faculty member. Each student will undertake project work in the area of his/her option.*

MECH 498 *Topics in Mechanical Engineering* (3 credits)
Prerequisite: Permission of the Department chair. This course may be offered in a given year upon the authorization of the Mechanical and Industrial Engineering Department. The course content may vary from offering to offering and will be chosen to complement the elective courses available in a given option or options. Lectures: three hours per week.

71.70

DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

Faculty	<i>Chair</i> SUDHIR P. MUDUR, <i>Professor</i>	TERRILL FANCOTT THOMAS FEVENS DAVID FORD DHRUBAJYOTI GOSWAMI GOSTA GRAHNE VOLKER M. HAARSLEV HOVHANNES A. HARUTYUNYAN RAJAGOPALAN JAYAKUMAR S.L. KLASA LEILA KOSSEIM JOEY PAQUET DAVID K. PROBST JUERGEN RILLING AHMED SEFFAH XIN WEI SHA NEMATOLLAH SHIRI
	<i>Associate Chair</i> LATA NARAYANAN, <i>Associate Professor</i>	<i>Assistant Professors</i> CONSTANTINOS CONSTANTINIDES TODD EAVIS OLGA ORMANDJIEVA
	<i>Professors</i> TIEN D. BUI GREGORY BUTLER VACLAV CHVATAL BIPIN C. DESAI EUSEBIUS J. DOEDEL PETER GROGONO ADAM KRZYZAK CLEMENT LAM H.F. LI JOHN MCKAY JAROSLAV OPATRNY THIRUVENGADAM RADHAKRISHNAN CHING Y. SUEN	<i>Adjunct Professors</i> T. KASVAND L. LAM Y.Y. TANG
	<i>Professors Emeriti</i> V.S. ALAGAR J. WILLIAM ATWOOD G. MARTIN R. SHINGHAL	<i>Adjunct Associate Professors</i> P. DINI WOJCIECH M. JAWORSKI
	<i>Associate Professors</i> SABINE BERGLER PATRICE CHALIN	
Location	<i>Sir George Williams Campus</i> Engineering, Computer Science and Visual Arts Complex, Room: EV 003.139 514-848-2424 ext. 3000	
Objectives	<p>Computer Science is the study and design of computer systems: hardware and software. Computer scientists are primarily concerned with the design of algorithms, languages, hardware architecture, systems software, applications software and tools. Applications range from simple game playing to the control of space vehicles, power plants and factories, from banking machines to intelligent fault and medical diagnosis. Computer professionals, in short, are concerned with the creation of computer and information systems for the benefit of society.</p> <p>Software Engineering applies the principles and practices of engineering to the creation of reliable, efficient, and economical software. Software Engineering has its roots in the theory and mathematics of computer science, but carries this knowledge further towards creative applications such as software control systems for vehicles, aircraft, industrial processes; animation, interactive video, virtual reality, commercial systems for banking and financial analysis; health systems for the analysis of biological systems and the control of therapeutic systems.</p> <p>It shares with engineering the rigorous methodology of analysis and design in the search for economical, reliable, and efficient solutions. Software engineers are trained in all aspects of the software life cycle, from specification through analysis and design, to testing maintenance and evaluation of the product. They are concerned with safety and reliability of the product as well as cost and schedule of the development process. The discipline is particularly applicable to very large software projects, as well as the re-engineering of existing products.</p>	
71.70.1 Curriculum for the Degree of Bachelor of/Baccalaureate in Computer Science	The Computer Science program emphasizes fundamentals and techniques that remain relevant and useful for many years after graduation. It consists of a combination of core courses in computer science, program courses attached to its options, and technical electives. The Computer Science Core provides a basic and broad study of theory, programming methodology, computer architecture, systems architecture, data structures, operating systems, files, databases, and software engineering. The option courses are designed to provide an integrated yet specialized training in particular	

application areas of the discipline. Each option involves the study of selected advanced elective courses in computer science, as well as courses in other disciplines, to provide further depth in computer science and the particular application area.

The Department offers the following six options: Information Systems, Software Systems, Computer Systems, Computer Applications, Computation Arts, and Mathematics and Statistics. There is an Honours program corresponding to each option. All options are offered in the co-operative format, with alternating study and work terms, for a limited number of students with suitable qualifications.

The **Information Systems option** focuses on business applications of computer systems, with special emphasis on databases, software engineering, and management of information systems.

The **Software Systems option** is concerned with the design and analysis of large-scale software systems.

The **Computer Systems option** focuses on the design of systems with both hardware and software components.

The **Computer Applications option** balances 45 credits of Computer Science courses and 45 credits of courses in another discipline of the student's choice.

The **Computation Arts option** combines Computer Science with a Major in Fine Arts for the design of interactive multi-media.

The **Mathematics and Statistics option** combines a comprehensive education in Computer Science and Mathematics.

71.70.2

Degree Requirements

To be recommended for the degree of BCompSc, students must satisfactorily complete an approved program of at least 90 credits comprising the courses of the Computer Science Core and those courses specified for their particular option in accordance with the graduation requirements of §71.10.5.

Students may not register for a 400-level course before completing all of the 200-level Computer Science Core courses of their program.

The Faculty of Engineering and Computer Science is committed to ensuring that its students possess good writing skills. Hence, every student in an undergraduate degree program is required to demonstrate competence in writing English or French prior to graduation.

All students admitted to the Faculty of Engineering and Computer Science as of September 2001 must meet the writing skills requirement by satisfying the requirements outlined in §16.2.4 (University Writing Test).

If a student has satisfied the writing skills requirement prior to September 2001, or prior to transferring to the Faculty of Engineering and Computer Science, that student is deemed to have satisfied the writing skills requirement.

Newly admitted students are strongly encouraged to meet the requirement very early in their program (Fall Term of first year for students starting in September or Winter Term of first year for students starting in January) to avoid the risk of delayed graduation should remedial work prove necessary. Students who are required to take ESL courses should meet the writing skills requirements in the semester following completion of their ESL courses.

Computer Science Core (36 credits)

The Computer Science Core consists of:

		<i>Credits</i>
COMP 228	System Hardware	3.00
COMP 229	System Software	3.00
COMP 238	Mathematics for Computer Science I	3.00
COMP 239	Mathematics for Computer Science II	3.00
COMP 248	Introduction to Programming	3.00
COMP 249	Programming Methodology	3.00
COMP 335	Introduction to Theoretical Computer Science	3.00
COMP 346	Operating Systems	4.00
COMP 352	Data Structures and Algorithms	3.00
COMP 353	Databases	4.00
COMP 354	Software Engineering I	4.00
		<hr/> 36.00

1. Information Systems Option

		<i>Credits</i>
	Computer Science Core	36.00
COMP 348	Principles of Programming Languages	3.00
ENCS 282	Technical Writing and Communication	3.00
	9 elective Computer Science credits chosen from COMP courses numbered above 300 (see Notes 1 and 2)	9.00
ECON 201	Introduction to Microeconomics	3.00
ECON 203	Introduction to Macroeconomics	3.00
COMM 210	Contemporary Business Thinking	3.00
COMM 215	Business Statistics	3.00

COMM 217	Financial Accounting	3.00
COMM 220	Analysis of Markets	3.00
COMM 222	Organizational Behaviour and Theory	3.00
COMM 224	Marketing Management	3.00
COMM 225	Production and Operations Management	3.00
COMM 305	Managerial Accounting	3.00
COMM 308	Introduction to Finance	3.00
	6 elective credits from any department with at most 3 credits from the John Molson School of Business (see Note 3)	6.00
		<hr/> 90.00

2. Software Systems Option *Credits*

	Computer Science Core	36.00
COMP 326	Computer Architecture	3.00
COMP 348	Principles of Programming Languages	3.00
ENCS 282	Technical Writing and Communication	3.00
	18 elective Computer Science credits chosen from COMP courses numbered above 300 (see Notes 1 and 2)	18.00
MATH 251	Linear Algebra I	3.00
ENGR 233	Applied Advanced Calculus	3.00
STAT 249	Probability I	3.00
STAT 250	Statistics	3.00
	15 elective credits from any department (see Note 3)	15.00
		<hr/> 90.00

3. Computer Systems Option *Credits*

	Computer Science Core	36.00
COMP 326	Computer Architecture	3.00
COMP 348	Principles of Programming Languages	3.00
ENCS 282	Technical Writing and Communication	3.00
	7 elective Computer Science credits chosen from COMP courses numbered above 300 (see Notes 1 and 2)	7.00
COEN 320	Introduction to Real-Time Systems	3.00
COEN 451	VLSI Circuit Design	4.00
COMP 327	Digital System Design	4.00
COMP 361	Elementary Numerical Methods	3.00
COMP 445	Data Communication and Computer Networks	4.00
ELEC 273	Basic Circuit Analysis	3.50
ELEC 311	Electronics I	4.00
ENGR 213	Applied Ordinary Differential Equations	3.00
ENGR 233	Applied Advanced Calculus	3.00
ENGR 371	Probability and Statistics in Engineering	3.00
	3.5 elective credits from any department (see Note 3)	3.50
		<hr/> 90.00

4. Computer Applications Option *Credits*

	Computer Science Core	36.00
ENCS 282	Technical Writing and Communication	3.00
	6 elective Computer Science credits chosen from COMP courses numbered above 300 (see Notes 1 and 2)	6.00
	45 elective credits (see Notes 3 and 4)	45.00
		<hr/> 90.00

5. Computation Arts Option

See \$71.80 for details.

6. Mathematics and Statistics Option

See \$71.85 for details.

NOTES:

- Students may obtain permission from the Department to take no more than two COMP courses numbered between 6000 and 6951 in this category. Credits obtained from these courses count towards the BCompSc degree and are not creditable towards a higher degree.

2. Students with the appropriate prerequisites may take the following Software Engineering courses as electives: SOEN 321, 385, 422, 423, and 475.
3. Certain courses are not acceptable as electives. In general, a course in a department outside Computer Science is acceptable as an elective if it can be taken as part of a degree program by students in that department. For example, a Biology (BIOL) course can be taken as an elective if it can be taken as part of an undergraduate program in Biology. The following is a partial list of courses that students in the BCompSc program may not take as elective credits unless a written request is granted by the Undergraduate Program Director on a Student Request Form.
 - MATH 200 to 220 inclusive (only MEP or ECP students required to do these courses may take them as part of their program)
 - BCEE 231, 232, 331
 - COMP 201, 212, 218
 - COEN 311, 417
 - MECH 215, 216, 415, 471
 - All INTE courses with the exception of INTE 270, 275 or 392
 - MAST 214, 217
 - With the exception of COMM 499F (Personal Finance), no other COMM 499 or DESC 490 special topic courses may be taken
 - DESC 381, 382, 384, 385, 445, 477, 481, 484, 487, 490, 492, 495
 - COMM 212, 301
 - ESL courses (unless specifically required)
 - All other out-of-faculty computer-related courses not on this list
4. At least 24 of the 45 credits must be part of a degree program leading to a Major or Minor in a subject other than Computer Science. However, it is not necessary to complete a Major or Minor in this subject.
5. A maximum of six credits of ESL courses may be used as general electives in a Computer Science program.

71.70.3
Extended Credit
Program

Students admitted to an Extended Credit Program under the provisions of Sections 13.3.2 or 13.8.1 must successfully complete a minimum of 120 credits including:

- 90 Program requirements as set out in Section 71.70.2
- 12 MATH 202³, 203³, 204³, 205³
- 3 COMP 201³
- 15 Additional credits, as indicated below:

- a) *Information Systems Option:*
15 elective credits chosen from outside the John Molson School of Business and the Department of Computer Science and Software Engineering.
- b) *Computer Applications Option:*
15 elective credits chosen from outside the Faculty of Engineering and Computer Science.
- c) *Other Options:*
CHEM 205³
PHYS 204³, 205³, 224¹, 225¹
and at least four credits chosen from:
BIOL 201³; CHEM 206³; ECON 201³, 203³; ESL 207³, 208³; PHYS 206³, 207³, 226¹

71.70.4
Honours Program

Students should refer to §16.2.3 of the Calendar for academic regulations for the Honours program. The following regulations are additional requirements for the Honours BCompSc Program.

1. Applications to enter an Honours program must be submitted to the Office of the Associate Dean (Student Academic Services) at least three months before the start of the term in which the student wishes to enter an Honours program.
2. Students must complete at least 30 credits towards their degree before entering an Honours program.
3. Each student in an Honours program must have an Honours advisor who approves the student's choice of courses prior to each registration.
4. Students must maintain an Annual Weighted Grade Point Average (GPA) of 3.20 or higher to remain in an Honours program.
5. Students who are required to withdraw from an Honours program may continue in the regular program of their option provided they are in acceptable or conditional standing according to the academic regulations in §71.10.3.

Course Requirements for Honours Programs

Honours students must fulfil the requirements of their option. In addition to these requirements, they must include COMP 490 and COMP 495 in their Computer Science electives.

71.70.5
Minor in Computer
Science

NOTE: Admission profile is 10.12.

Minor in Computer Science

- 21 COMP 228³, 229³, 238³, 239³, 248³, 249³, 352³
3 300-400 level Computer Science elective credits.

Students who require any of the above courses as part of their Major should replace these courses with 300- or 400-level Computer Science electives or consult their departmental advisor to make an appropriate substitution in their principal program.

71.70.6
Programs Related to
Computer Science

Both Major and Minor programs in Management Information Systems can be found in the John Molson School of Business Section of the Undergraduate Calendar, §61.

The Faculty of Fine Arts and the Department of Computer Science and Software Engineering offer complementary Major programs. Students who take the Computer Applications Option (see §71.70.2 above) can also take the Major in Computation Arts and Computer Science (see §71.80, and the Fine Arts Section, §81) or the Joint Major in Mathematics and Statistics and Computer Applications (see §71.85, and the Mathematics and Statistics Section, §31.200).

71.70.7
Industrial Experience
and Reflective
Learning Courses

Students employed full-time in a computer science position during their non-study terms may have this Industrial Experience listed on their record, provided they successfully complete the Reflective Learning course associated with this work term.

Industrial Experience work terms will be coded as COMP 107 and 207, and the associated Reflective Learning courses will be coded as COMP 108 and 208 respectively.

Students may only register for these courses with the permission of the Faculty.

The Industrial Experience terms COMP 107 and 207 carry no credit value and are used to indicate that the student is on an Industrial Experience term.

The COMP 108 and 208 Industrial Experience Reflective Learning courses are worth three credits and are marked on a pass/fail basis. They are above and beyond the credit requirements of the student's program and are not transferable nor are they included in the full- or part-time assessment status.

Students studying for a Co-op work term or CIADI term should not register for these Industrial Experience and Reflective Learning courses.

71.70.8
Curriculum for the
Degree of BEng in
Software Engineering

The Software Engineering program is built on the fundamentals of computer science, an engineering core, and a discipline core in Software Engineering to cover the engineering approach to all phases of the software process and related topics.

The curriculum builds on the traditional computer science core topics of computer mathematics, theory, programming methodology, and mainstream applications to provide the computing theory and practice which underlie the discipline. The engineering core covers basic science, professional topics, and introduces the engineering approach to problem solving. The program core in Software Engineering includes advanced programming techniques, software specification, design, architecture, as well as metrics, security, project management, and quality control. The elective groups cover a broad range of advanced topics, from formal methods to distributed systems.

71.70.9
Degree Requirements
for the BEng in
Software Engineering

Students registered in the Software Engineering program must complete a minimum of 120 credits during four years of full-time study. The program consists of the Engineering Core, the Software Engineering Core, and an Elective Group.

Engineering Core (See §71.20.3)		Credits
ELEC 275	Principles of Electrical Engineering	3.50
ENCS 282	Technical Writing and Communication	3.00
ENGR 201	Professional Practice and Responsibility	1.50
ENGR 202	Sustainable Development and Environmental Stewardship	1.50
ENGR 213	Applied Ordinary Differential Equations	3.00
ENGR 233	Applied Advanced Calculus	3.00
ENGR 301	Engineering Management Principles and Economics	3.00
ENGR 371	Probability and Statistics in Engineering	3.00
ENGR 391	Numerical Methods in Engineering	3.00 (1)
ENGR 392	Impact of Technology on Society	3.00
	General Education elective (see §71.20.6)	3.00
	Two Basic Science courses	6.00 (2)
		<hr/> 36.50

NOTES:

- (1) Software Engineering students may replace ENGR 391 with COMP 361.

- (2) In addition to the courses in the Engineering Core required for all Engineering students, Software Engineering students are required to take two Basic Science courses (6 credits) selected from the list below.

Basic Science Courses		Credits
BIOL 206	Elementary Genetics	3.00
BIOL 208	Environmental Biology	3.00
BIOL 226	Biodiversity and Ecology	3.00
BIOL 261	Molecular and General Genetics	3.00
CHEM 209	Discovering Biotechnology	3.00
CHEM 217	Introductory Analytical Chemistry I	3.00
CHEM 221	Introductory Organic Chemistry I	3.00
CHEM 234	Physical Chemistry I: Thermodynamics	3.00
GEOL 206	Earthquakes, Drifting Continents and Volcanoes	3.00
GEOL 208	The Earth, Moon and the Planets	3.00
PHYS 252	Optics	3.00
PHYS 253	Electricity and Magnetism I	3.00
PHYS 273	Energy and Environment	3.00
PHYS 334	Thermodynamics	3.00
PHYS 354	Electricity and Magnetism II	3.00
PHYS 384	Introduction to Astronomy	3.00
PHYS 385	Astrophysics	3.00

Software Engineering Core (71 credits)		Credits
COMP 238	Mathematics for Computer Science I	3.00
COMP 239	Mathematics for Computer Science II	3.00
COMP 248	Introduction to Programming	3.00
COMP 249	Programming Methodology	3.00
COMP 335	Introduction to Theoretical Computer Science	3.00
COMP 346	Operating Systems	4.00
COMP 352	Data Structures and Algorithms	3.00
COMP 353	Databases	4.00
COMP 445	Data Communication and Computer Networks	4.00
SOEN 228	System Hardware	4.00
SOEN 229	System Software	3.00
SOEN 321	Information Systems Security	3.00
SOEN 337	Measurement in Software Development	3.00
SOEN 341	Software Process	3.00
SOEN 342	Software Requirements and Specifications	3.00
SOEN 343	Software Design	3.00
SOEN 344	Software Architecture	3.00
SOEN 357	User Interface Design	3.00
SOEN 384	Management and Quality Control in Software Development	3.00
SOEN 385	Control Systems and Applications	3.00
SOEN 390	Software Development Project	3.00
SOEN 490	Software Engineering Design Project	4.00
		<hr/> 71.00

Students must complete at least 12.5 credits chosen from the following courses:

		Credits
COEN 320	Introduction to Real-Time Systems	3.00
COEN 421	Embedded Systems and Software Design	4.00
COMP 327	Digital System Design	4.00
COMP 348	Principles of Programming Languages	3.00
COMP 442	Compiler Design	4.00
COMP 444	System Software Design	4.00
COMP 446	Designing Programs with C++	3.00
COMP 451	Database Design	4.00
COMP 465	Design and Analysis of Algorithms	3.00
COMP 471	Computer Graphics	4.00
COMP 472	Artificial Intelligence	4.00
COMP 473	Pattern Recognition	3.00
COMP 474	Introduction to Expert Systems	4.00
COMP 478	Image Processing	4.00

SOEN 423	Distributed Systems	3.00
SOEN 431	Formal Methods	3.00
SOEN 448	Management of Evolving Systems	3.00
SOEN 475	Imaging and Visualization	3.00
ENGR 411	Special Technical Report	1.00

71.70.10
Course Descriptions

Please note that new course numbers have been implemented. For equivalent course numbers under the old system, please consult §200.6

Students from outside the Faculty of Engineering and Computer Science who are not registered in a Computer Science program may not take more than five COMP courses numbered higher than 212. Students from outside the Faculty of Engineering and Computer Science who are registered for the Minor in Computer Science may not take more than 30 credits of COMP courses numbered higher than 212.

COMPUTER SCIENCE

COMP 108 *Computer Science Industrial Experience Reflective Learning I* (3 credits)

Prerequisite: Permission of the Faculty. This course is a reflective learning module for students in their related field which is based on their academic requirements and their first industrial experience.

COMP 201 *Introduction to Computers and Computing* (3 credits)

Prerequisite: MATH 201 or equivalent. Overview of a computing system and its operation. Introduction to problem solving and algorithms. Introduction to program design and development with emphasis on common problem solution. A programming language will be introduced to develop and convey the above topics. Lectures: three hours per week. Tutorial: one hour per week. *NOTES: 1. Students who have received credit for COMP C211 or COMP 212 or COMP 215 or COMP 248 may not take this course for credit. 2. This course may not be taken for credit in the regular undergraduate programs in Engineering and Computer Science.*

COMP 208 *Computer Science Industrial Experience Reflective Learning II* (3 credits)

Prerequisite: COMP 108 and permission of the Faculty. This course expands on the students' second industrial experience term in their related field of study to further develop their knowledge and work-related skills.

COMP 212 *FORTRAN for Engineers and Scientists* (3 credits)

Prerequisite: MATH 204 or Cegep Mathematics 105; MATH 205 or Cegep Mathematics 203. Note: It is also assumed that students have had some exposure to computers, either through a Cegep course or through exposure to personal computers. A brief introduction to computers and computing systems. A thorough grounding in the use of FORTRAN 77 as a tool for the solution of engineering and scientific problems. Introduction to the principles of software engineering: problem specification, requirements analysis, program design with emphasis on structured programming, testing, and validation; program

documentation. Lectures: three hours per week. Tutorial: one hour per week.

NOTES: 1. Students having credit for a FORTRAN programming course from Cegep with a mark of at least 85% may, during the first two weeks of the course, apply to the course coordinator to undertake a FORTRAN programming project appropriate to their field of study in lieu of the normal requirements of the course. 2. Students in the BCompSc program may not take this course for credit.

COMP 218 *Fundamentals of Object-Oriented Programming* (3 credits)

Prerequisite: MATH 201 or equivalent (no prior experience with computers is assumed). Computers and computing: problem solving with computers; programming; basic elements of an Object-Oriented language: basic data types, objects, expressions, predefined functions for I/O; simple programs; program documentation; control structures; functions: simple library functions; arrays: one- and two-dimensional arrays of basic types; classes of objects: analysis and design of classes, implementation of classes.

NOTE: Students who have received credit for COMP 248 may not take this course for credit.

COMP 228 *System Hardware* (3 credits)

Prerequisite: MATH 203 or 209 or Cegep Mathematics 103 previously or concurrently; MATH 204 or 208 or Cegep Mathematics 105 previously or concurrently. Processor structure, Data and Instructions, Instruction Set Processor (ISP) level view of computer hardware, assembly language level use. Memory systems — RAM and disks, hierarchy of memories. I/O organization, I/O devices and their diversity, their interconnection to CPU and Memory. Communication between computers at the physical level. Networks and computers. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for COMP 220 or SOEN 228 may not take this course for credit.

COMP 229 *System Software* (3 credits)

Prerequisite: COMP 228; COMP 248; MATH 203 or 209 or Cegep Mathematics 103; MATH 204 or 208 or Cegep Mathematics 105. Hardware-

software interface, system kernel, system services, system evolution. Assemblers, compilers, linkers, and loaders. System component interfaces. User-level view of operating systems. Lectures: three hours per week. Tutorial: two hours per week.
NOTE: Students who have received credit for SOEN 229 may not take this course for credit.

COMP 238 *Mathematics for Computer Science I* (3 credits)

Prerequisite: MATH 203 or 209 or Cegep Mathematics 103 previously or concurrently; MATH 204 or 208 or Cegep Mathematics 105 previously or concurrently. Sets, Propositional Logic, Predicate Calculus, Boolean Algebra. Functions and Relations. Proof Techniques, including proof by induction. Lectures: three hours per week. Tutorial: two hours per week.
NOTE: Students who have received credit for COMP 231 may not take this course for credit.

COMP 239 *Mathematics for Computer Science II* (3 credits)

Prerequisite: COMP 238; MATH 203 or 209 or Cegep Mathematics 103; MATH 204 or 208 or Cegep Mathematics 105; MATH 205 or Cegep Mathematics 203 previously or concurrently. Counting and number theory. Permutations and combinations. Recursive algorithms. Recurrence relations. Graph theory and trees. Lectures: three hours per week. Tutorial: two hours per week.

COMP 248 *Introduction to Programming* (3 credits)

Prerequisite: MATH 204 or 208 or Cegep Mathematics 105 previously or concurrently. Writing simple programs using assignment and sequence. Variables. Simple types. Operators and expressions. Conditional and repetitive statements. Input and output. Simple functions. Program structure and organization. Definition and scope. Data abstraction and encapsulation. Introduction to classes and objects. Constructors. Lectures: three hours per week. Tutorial: two hours per week.
NOTE: Students who have received credit for COMP 215 or COMP 218 may not take this course for credit.

COMP 249 *Programming Methodology* (3 credits)

Prerequisite: COMP 238; COMP 248; MATH 203 or 209 or Cegep Mathematics 103; MATH 204 or 208 or Cegep Mathematics 105; MATH 205 or Cegep Mathematics 203 previously or concurrently. Class definitions. Designing classes and member functions. Class libraries and their uses. Input and output. Program development. Introduction to software engineering. Specification and implementation. Inheritance. Lectures: three hours per week. Tutorial: two hours per week.
NOTE: Students who have received credit for COMP 245 may not take this course for credit.

COMP 251 *Introduction to Business Programming* (3 credits)

Prerequisite: Cegep 420-911 or equivalent. Introduction to business data processing. Basic file organization and handling, record layouts, elementary information storage and retrieval. Detailed specifications of the Common Business Oriented Language (COBOL). Structured programming concepts will be emphasized. This course will include programming assignments involving basic business applications, to be prepared, tested, and documented individually. Lectures: three hours per week. Tutorial: one and a half hours per week.
NOTE: Restricted to students registered in a Commerce and Administration program.

COMP 318 *Introduction to Database Applications* (4 credits)

Prerequisite: COMP 218 or COMP 248, or a course in C, C++, or Java. This is a hands-on course on database technology intended for non-computer science students in engineering, science, business, or arts. It emphasizes practical issues in application development while introducing the fundamentals of databases with a focus on the relational data model and the Structured Query Language (SQL). Upon completion of this course, students will be able to design and implement databases, and develop user interfaces to access, search, and update the database through the Internet using the Web technology. Lectures: three hours per week. Laboratory: two hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for COMP 353 may not take this course for credit.
NOTE: Students in the BCompSc program may not take this course for credit.

COMP 326 *Computer Architecture* (3 credits)

Prerequisite: COMP 346. Classification schemes. Functional units, bussing systems and input/output structures, storage systems, instruction sets. Microprogramming. Survey of different kinds of computer architectures. Software influences on architecture. Advanced topics in computer architecture. Lectures: three hours per week. Tutorial: one hour per week.

COMP 327 *Digital System Design* (4 credits)

Prerequisite: COMP 228 or SOEN 228 or COEN 311. Reduction of Boolean expressions. Digital integrated circuits. Combinatorial circuits. Sequential logic, counters, shift registers. Microprocessors. Interfacing with external devices. Lectures: three hours per week. Laboratory: two hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for COMP 325 or COEN 312 may not take this course for credit.

COMP 335 *Introduction to Theoretical Computer Science* (3 credits)

Prerequisite: COMP 239 or COEN 231;

COMP 249 or COEN 244. Finite state automata and regular languages. Push-down automata and context-free languages. Pumping lemmas. Applications to parsing. Turing machines. Undecidability and decidability. Lectures: three hours per week. Tutorial: one hour per week.

COMP 346 *Operating Systems* (4 credits)
Prerequisite: COMP 229 or SOEN 229 or COEN 311; COMP 352 or COEN 352. Operating system evolution and services. Process management: concepts of processes, concurrent languages, process states, process communication, operating system structure, processor scheduling, monitors. System management: virtual memory, resource allocation, queue management, communication with peripherals, exception handling. File systems. Interactive computation. Protection. Distributed systems. Lectures: three hours per week. Laboratory: two hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for COMP 343 or COMP 385 may not take this course for credit.

COMP 348 *Principles of Programming Languages* (3 credits)
Prerequisite: COMP 249. Programming paradigms: procedural, object-oriented, functional, and logical. Values and references; function calling and parameter passing mechanisms. Issues in typing: static and dynamic typing; weak and strong typing. Polymorphism and genericity. Exception handling techniques. Stacks, heaps, and memory management. Lectures: three hours per week. Tutorial: one hour per week.

COMP 352 *Data Structures and Algorithms* (3 credits)
Prerequisite: COMP 239 or COEN 231; COMP 249 or COEN 244. This course will emphasize the definition, usage, and manipulation of fundamental data structures and their associated algorithms: stacks and queues, trees, tables, lists, arrays, strings, sets; and will introduce files and access methods. External sorting, B-trees, multi-key organizations. Lectures: three hours per week. Tutorial: one hour per week.

COMP 353 *Databases* (4 credits)
Prerequisite: COMP 352 or COEN 352. Classical database management: modelling, data integrity, data independence and security, ANSI/SPARC architecture, data models (relational, hierarchical, and network), database design, detailed study of the relational model. Lectures: three hours per week. Laboratory: two hours per week. Tutorial: one hour per week.

COMP 354 *Software Engineering I* (4 credits)
Prerequisite: COMP 352; ENCS 282. Principles of software development and maintenance. Software lifecycle models and deliverables: requirements analysis and specification, architectural and detailed design, implementation,

verification and validation. People, product, and process issues: team dynamics, communication, presentations, reviews. Lectures: three hours per week. Laboratory: two hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for SOEN 341 or COEN 431 may not take this course for credit.

COMP 361 *Elementary Numerical Methods* (3 credits)
Prerequisite: COMP 239 or COEN 231; COMP 249 or COEN 244. Error analysis and computer arithmetic. Numerical methods for solving linear systems, Gaussian elimination, LU decomposition. Numerical solution of non-linear equations, fixed point iterations, rate of convergence. Interpolations and approximations, Lagrange polynomials, divided differences, discrete least-square approximation, Legendre polynomials. Numerical integration, Newton-Cotes formulas, Romberg integration. Emphasis will be on the development of efficient algorithms. Lectures: three hours per week. Tutorial: one hour per week.

COMP 367 *Techniques in Symbolic Computation* (3 credits)
Prerequisite: COMP 238 or MAST 217; COMP 248 or MAST 234. An application-oriented introduction to symbolic computation, as it is used in algebra, number theory and combinatorics: capabilities of symbolic systems (e.g. MAPLE); arithmetic mod p and mod m ; Chinese remainder theorem; finite fields; error-correcting codes; continued fractions; public-key encryption schemes (e.g. RSA); generation of combinatorial objects.
NOTE: Students who have received credit for MAST 332 may not take this course for credit.

COMP 421 *Microprocessor Systems Architecture* (4 credits)
Prerequisite: COMP 327 or equivalent. Micro-computer families. Memory interface. I/O systems. Peripheral control. Single-chip microprocessors. Coprocessors. System busses. Board level design. Multicomputer systems. Communication architecture. Lectures: three hours per week. Laboratory: two hours per week.
NOTE: Students who have received credit for COMP 427 or COMP 486 may not take this course for credit.

COMP 442 *Compiler Design* (4 credits)
Prerequisite: COMP 229 or SOEN 229 or COEN 311; COMP 335; COMP 352 or COEN 352. Compiler organization and implementation. Programming language constructs, their syntax and semantics. Syntax directed translation, code optimization. Run-time organization of programming languages. Project. Lectures: three hours per week.

COMP 444 *System Software Design* (4 credits)
Prerequisite: COMP 346. Detailed examination

of data structures and algorithms of a contemporary operating system: file system, processes, memory management, device management. Comparison of techniques used with those employed in other operating systems. Lectures: three hours per week. Laboratory: two hours per week.

COMP 445 *Data Communication and Computer Networks* (4 credits)

Prerequisite: COMP 346. The study of remote access to and communications between computers. Network architectures and topology; communication protocols and interfaces, functional layers; transmission facilities including communications equipment, line utilization, switching, and error handling; standard protocols; network interfaces including routing and flow control; point-to-point, broadcasting, and local networks theory and current practice; high-level protocols; reliability and security, encryption. Lectures: three hours per week. Laboratory: two hours per week.

COMP 446 *Designing Programs with C++* (3 credits)

Prerequisite: COMP 352. Introduction to C++; syntax; compiler directives; simple programs. Programming with strings. Program organization. Input and output using streams. The Standard Template Library; containers; algorithms; iterators. Classes and types; new types; abstract types; inheritance and dynamic binding. Overloading and generic programming. Advanced topics: abstract classes; type conversion; exception handling; memory management. Lectures: three hours per week.

COMP 451 *Database Design* (4 credits)

Prerequisite: COMP 353. Storage management. Buffer management. Data organization. Index structures. Query optimization and execution. Transaction management. Recovery. Concurrency control. Database performance analysis and tuning. New trends in database technology. Lectures: three hours per week. Laboratory: two hours per week.

COMP 454 *Software Engineering II* (3 credits)

Prerequisite: COMP 335; COMP 353; COMP 354. Issues of quality and productivity in software engineering. Software engineering principles for the development of complex systems: cost and schedule estimation, software metrics, software process models, team organization. Formal specification techniques. Quality of process and products: reviews, inspections, testing, statistical reliability estimation, formal methods. Lectures: three hours per week.

COMP 457 *Office Automation* (3 credits)

Prerequisite: COMP 352. Design of an office automation system. Technical aspects of some office functions. Petri nets. Communication networks. Interface design. Security and cryptography. Future developments. Lectures: three hours per week.

COMP 458 *Structure of Information Systems* (3 credits)

Prerequisite: COMP 353. Information systems and organizations. Representation and analysis of system structure. Decision theory. Information system applications. Information centres. System evaluation and selection. Lectures: three hours per week.

COMP 463 *Discrete System Simulation* (3 credits)

Prerequisite: COMP 249 or COEN 244; MATH 243 or ENGR 371 or COMM 215. Discrete random variables and their distributions. A comparison of simulation techniques: discrete, continuous, and hybrid. Queueing models, analysis of data. Model building. Review of simulation languages. Application to business problems and operations research. Lectures: three hours per week.

COMP 465 *Design and Analysis of Algorithms* (3 credits)

Prerequisite: COMP 335; COMP 352 or COEN 352. Empirical and theoretical measures of the efficiency of algorithms. Algorithm design techniques. A study of good algorithms related to set operations, sorting, and graph theory. A survey of hard problems, NP-completeness, and intractable problems. Lectures: three hours per week.

COMP 471 *Computer Graphics* (4 credits)

Prerequisite: COMP 352 or COEN 352. Display memory; generation of points, vectors, etc. Interactive versus passive graphics; CRT devices and plotters, analog storage of images. Digitizing and digital storage. Pattern recognition. Data structures and graphics software. The mathematics of three-dimensional transformations; projections. Applications in computer-aided design and instruction. Lectures: three hours per week. Laboratory: two hours per week.

COMP 472 *Artificial Intelligence* (4 credits)

Prerequisite: COMP 352 or COEN 352. Scope of AI. Heuristics. Problem-solving methodologies. Game-playing. Reasoning by deduction and induction. Natural language processing. Lectures: three hours per week. Laboratory: two hours per week.

COMP 473 *Pattern Recognition* (3 credits)

Prerequisite: COMP 352. Sequential and parallel recognition methodologies. Preprocessing. Feature extraction and selection. Syntactic and statistical approaches. Discriminant functions. Techniques for learning. Bayesian decision procedures. Neural nets. Lectures: three hours per week.

COMP 474 *Introduction to Expert Systems* (4 credits)

Prerequisite: COMP 352 or COEN 352. Basic concepts and techniques. Knowledge representation in inferencing. Building a small expert system. Knowledge engineering and large system

development. Survey of tools and expert systems. The expert system market. Lectures: three hours per week. Laboratory: two hours per week.

COMP 475 *Human-Computer Interaction*
(3 credits)

Prerequisite: COMP 352. Importance of Human-Computer Interaction (HCI) in modern interactive software systems. User acceptance of technology. Cognition. Human capabilities and characteristics. Human information processing. Human performance model. Human social organization and work. Fitts' law. Goals-Operators. Methods and Selection Analysis. Users' mental models. Models of problem solving in HCI. Dialogue models. Input and output devices. Physical ergonomics. Ethnographic and field observation methods. Case studies and empirical analysis of interaction patterns. "Real world" versus electronic/virtual interaction. Ubiquitous computing. Special topics: HCI concerns in stressful, hazardous, information systems, collaborative and mediated communication environments. Lectures: three hours per week.

COMP 478 *Image Processing* (4 credits)
Prerequisite: COMP 352 or COEN 352. Digital image fundamentals, image transforms (Fourier, Walsh, Haar, Hotelling, wavelet), image enhancement (histogram processing, spatial filtering, high- and low-pass filtering), image restoration, image compression (elements of information theory, image compression models, error-free compression, lossy compression, image compression standards), image segmentation (line detection, Hough transform, edge detection and linking, thresholding, region splitting and merging), representation and description (chain codes, signatures, skeletons, shape descriptors, moments, texture). Project.

COMP 490 *Computer Science Project I*
(3 credits)

Prerequisite: Completion of 60 credits. Students will work on a computer science project under the supervision of a faculty member and submit a suitable written report on the work carried out. Students planning to register for this course should consult with the Department prior to registration in the final year of study.

COMP 492 *Computer Science Project II*
(3 credits)

Prerequisite: COMP 490 previously or concurrently. Students having permission of the Department to carry out a major project will register for both COMP 490 and 492. Alternatively, they may carry out a second smaller project.

COMP 495 *Honours Seminar* (1 credit)
Prerequisite: Registration in final year of the Honours program. Students are required to attend a number of departmental seminars (initially ten) and submit a written report on one of them. There will be an administrator in charge of this course.

COMP 498 *Topics in Computer Science*
(3 credits)

Prerequisite: Permission of the Department. This course may be offered in a given year upon the authorization of the Department. The content may vary from offering to offering and will be chosen to complement the available elective courses. Lectures: three hours per week.

SOFTWARE ENGINEERING

SOEN 228 *System Hardware* (4 credits)

Prerequisite: MATH 203 or 209 or Cegep Mathematics 103, MATH 204 or 208 or Cegep Mathematics 105. Processor structure, Data and Instructions, Instruction Set Processor (ISP) level view of computer hardware, assembly language level use. Memory systems — RAM and disks, hierarchy of memories. I/O organization, I/O devices and their diversity, their interconnection to CPU and Memory. Communication between computers at the physical level. Networks and computers. Lectures: three hours per week. Tutorial: two hours per week. Laboratory: two hours per week.

NOTE: Students who have received credit for COMP 228 may not take this course for credit.

SOEN 229 *System Software* (3 credits)

Prerequisite: SOEN 228; COMP 248. Hardware-software interface, system kernel, system services, system evolution. Assemblers, compilers, linkers, and loaders. System component interfaces. User-level view of operating systems. Lectures: three hours per week. Tutorial: two hours per week.

NOTE: Students who have received credit for COMP 229 may not take this course for credit.

SOEN 282 *Document Processing*
(2 credits)

Prerequisite: ENCS 281. Document processing software; choice of appropriate tools. Preparing reports with the aid of a spreadsheet. Using Internet facilities for group collaboration, including the construction of shared hypertext. Extraction of documentation from source code. Configuration management. Principles and use of markup languages such as SGML and HTML. Documentation standards such as ISO 9000. Lectures: two hours per week. Tutorial: two hours per week.

SOEN 321 *Information Systems Security*
(3 credits)

Prerequisite: COMP 346. Protocol layers and security protocols. Intranets and extranets. Mobile computing. Electronic commerce. Security architectures in open-network environments. Cryptographic security protocols. Threats, attacks, and vulnerabilities. Security services: confidentiality; authentication; integrity; access control; non-repudiation; and availability. Security mechanisms: encryption; data-integrity mechanisms; digital signatures; keyed hashes; access-control mechanisms; challenge-response authentication; traffic padding; routing control; and notarization.

Key-management principles. Distributed and embedded firewalls. Security zones. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 337 *Measurement in Software Development* (3 credits)

Prerequisite: ENGR 371; SOEN 342, 343.
Fundamentals and scope of software measurement. Theoretical basis for software measurement. Measuring products, processes, resources. Measurement data collection and analysis. Measurement and management. Goal-Question-Metrics approach. Quality models. IEEE and ISO standards for software measurement. Introduction to testing: purpose of tests; test strategies; interpretation of test results. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 341 *Software Process* (3 credits)
Prerequisite: COMP 228 or SOEN 228 or COEN 311; COMP 352 or COEN 352; SOEN 282 or ENCS 282 previously or concurrently. Basic principles of software engineering. Introduction to software process models. Activities in each phase, including review activities. Working in teams: organization; stages of formation; roles; conflict resolution. Introduction to notations used in software documentation. How to read, review, revise, and improve software documentation. Lectures: three hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for COMP 354 may not take this course for credit.

SOEN 342 *Software Requirements and Specifications* (3 credits)
Prerequisite: SOEN 341. Requirements engineering. Functional and non-functional requirements. Traceability. Test generation. Formal and informal specifications. Formal specification languages. Reasoning with specifications. Correctness issues. Verification. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 343 *Software Design* (3 credits)
Prerequisite: SOEN 341. Design notations and methodologies. Design principles: information hiding; coupling and cohesion. Object-oriented design with current formal and informal notations. Scenario-based design, and the role of use cases. Design patterns. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 344 *Software Architecture* (3 credits)
Prerequisite: SOEN 343. Information hiding, dependencies, layers, partitions. Architecture descriptive notations. Common architectural styles. Components, patterns, and frameworks. Fundamental structures for architectures: layers; partitions; uses relation; client-supplier relation; peer-to-peer relation; callbacks. Roles and views of architecture. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 357 *User Interface Design* (3 credits)
Prerequisite: SOEN 342. The human side: I/O; memory; and information processing. Interaction:

mental models; human error; interaction frameworks and paradigms. Direct manipulation. User interface design: principles; standards; and guidelines. User-centred design: standards and design rationale; heuristic evaluation; iterative design; and prototyping. Task-centred design. Rationalized design: usability engineering; dialogue notations; user models; diagrammatic notations; and textual notations. Evaluation: with the user; without the user; quantitative; and qualitative. Implementation support. Help and documentation. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 384 *Management and Quality Control in Software Development* (3 credits)

Prerequisite: ENCS 282; SOEN 341; SOEN 337 previously or concurrently. Organization of large software development. Roles of team members, leaders, managers, stakeholders, and users. Tools for monitoring and controlling a schedule. Financial, organizational, human, and computational resources allocation and control. Project and quality reviews, inspections, and walkthroughs. Risk management. Communication and collaboration. Cause and effects of project failure. Project management via the Internet. Quality assurance and control. Lectures: three hours per week. Tutorial: one hour per week.
NOTE: Students who have received credit for SOEN 345 or 383 may not take this course for credit.

SOEN 385 *Control Systems and Applications* (3 credits)
Prerequisite: ENGR 233; ELEC 275. Physical modelling: block diagrams; feedback; open and closed loops. Linear differential equations; differential operators; free, forced, and total response; steady-state and transient response. Laplace transform and inverse transform; second-order systems. Overview of transfer functions and stability. Computer simulation of control systems. Applications to physical systems: motor control; heating systems; servo systems; ship and aircraft control. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 390 *Software Development Project* (3 credits)
Prerequisite: SOEN 344 and 357 previously or concurrently. Students will work in teams to design and implement a software project from requirements provided by the coordinator. Each team will demonstrate the software and prepare adequate documentation for it. In addition, each student will write an individual report. Lectures: three hours per week. Tutorial: one hour per week.

SOEN 422 *Embedded Systems and Software* (3 credits)
Prerequisite: COMP 346. Characteristics of embedded systems. Microcontroller architecture and typical target systems. Programming issues related to mixed languages. Real-time kernel

services: task management; intertask communication and synchronization; memory management; time management; interrupt support; configuration; and initialization. Development methods: state machines and fuzzy logic. Debugging methods for interrupts. Testing and simulation methods. Lectures: three hours per week. *NOTE: Students who have received credit for COEN 421 may not take this course for credit.*

SOEN 423 *Distributed Systems* (3 credits)
Prerequisite: COMP 346. Introduction to the theory of distributed systems and networks. Distributed system and network characteristics: failure; delay/asynchrony; and throughput. Types of network interaction. Fault tolerance. Recovery from failure. Lectures: three hours per week.

SOEN 431 *Formal Methods* (3 credits)
Prerequisite: SOEN 342, 343. Components of formal systems. Formal methods; levels of formalism. Integrating formal methods into the existing software life-cycle process model for a given project. Attributes of a formal specification language. Formal notations based on extended finite state machines; case studies involving the design of user interfaces, reactive systems, and concurrent systems. Software development using formal methods, including tools for: type checking; debugging; verifying checkable properties; validation of refinements; and code generation from refinements. Lectures: three hours per week.

SOEN 448 *Management of Evolving Systems* (3 credits)
Prerequisite: SOEN 342, 343, 344. Software maintenance: corrective; perfective; and adaptive. Software reuse; construction of reusable software. Techniques for reverse engineering and re-engineering software. Software development as "growing" software. Long-term evolution of software systems. Legacy systems. Lectures: three hours per week.

SOEN 449 *Component Engineering*
(3 credits)
Prerequisite: SOEN 344. Review of high-level language concepts and abstraction mechanisms. Programming with functional and logical languages. Typed vs. untyped languages. The use of scripting languages and other language-based techniques to assemble systems from high-level components. Lectures: three hours per week.

SOEN 475 *Imaging and Visualization*
(3 credits)
Prerequisite: COMP 471. Graphical application programmer interfaces. Generating images from two- and three-dimensional data. Review of simulation techniques. Application of advanced graphics techniques to mathematics, physics, engineering, medicine, and other areas. Lectures: three hours per week.

SOEN 490 *Software Engineering Design Project* (4 credits)
Prerequisite: SOEN 337, 342, 343, 344, 390. Students will work in teams of between six and nine members to construct a significant software application. The class will meet at regular intervals. Team members will give a presentation of their contribution to the project. Laboratory: six hours per week.

SOEN 498 *Topics in Software Engineering*
(3 credits)
Prerequisite: Permission of the Department. This course may be offered in a given year upon the authorization of the Department. The content may vary from offering to offering and will be chosen to complement the available elective courses. Lectures: three hours per week.

71.80 COMPUTATION ARTS AND COMPUTER SCIENCE

Faculty	Undergraduate Program Director LEILA KOSSEIM, Associate Professor																		
Location	Sir George Williams Campus Engineering, Computer Science and Visual Arts Complex, Room: EV 003.139 514-848-2424 ext. 3053																		
Objectives	The Faculty of Engineering and Computer Science and the Faculty of Fine Arts have created a program of study which combines a comprehensive education in computer science and a complementary set of courses of equivalent value in the fine arts. This program resides in both Faculties. In the Faculty of Engineering and Computer Science, it is offered under the aegis of the Bachelor of/Baccalaureate in Computer Science, Computer Applications Option. According to their preferences and aspirations, students may apply either for a Bachelor of/Baccalaureate in Computer Science program, or a Bachelor of/Baccalaureate in Fine Arts program. The Fine Arts offering is described in §81.90. The Computer Science program is described below.																		
Curriculum	<p>The Computer Applications Option may be taken with a Major in Computation Arts and consists of the Computer Science Core complemented by 45 credits of study in Fine Arts. It provides a foundation for the integration of the arts and computer science as hybrid digital media arts and multimedia productions.</p> <p>The CART core focuses on three areas of digital media: image works, sound exploration, and 3D modelling/animation. Through the integration of theory and practice, the programs aim at developing interdisciplinary cultural and technological practices, for independent arts initiatives, industry, and client-based productions.</p> <p>The core courses are open-ended and flexible to accommodate change that will run parallel to technological advancements in industry and give students a strong base in multimedia research. Design Art, Electroacoustics, Film Animation, and the Studio Electronic Arts provide the Fine Arts electives, which further supports the cross-disciplinary nature of the program directives. This program will give graduates the conceptual abilities and technical skills they need to practice as hybrid cultural workers in the rapidly expanding field of multimedia. Students will have many more options to fine-tune a multimedia program according to their individual needs and expectations. Courses have been restructured into three credits to facilitate computer lab access, and flexibility in course sequencing and offerings, as well as to accommodate completion of the program within a co-op structure.</p> <p>Students of Computation Arts must bear the costs of annual laboratory fees.</p>																		
Structure of the Programs	<p>The Major in Computation Arts is based on the Computer Science Computation Arts Option (see §71.70.2).</p> <p>Computation Arts Option The program consists of 45 credits in Computer Science and 45 credits in Fine Arts.</p> <table><tr><td colspan="2">The Computer Science component consists of:</td><td>Credits</td></tr><tr><td></td><td>Computer Science Core (see §71.70.2)</td><td>36.00</td></tr><tr><td>ENCS 282</td><td>Technical Writing and Communication</td><td>3.00</td></tr><tr><td>COMP 471</td><td>Computer Graphics</td><td>4.00</td></tr><tr><td></td><td>2 elective Computer Science credits chosen from COMP courses numbered above 300 (see Note 1)</td><td>2.00</td></tr><tr><td></td><td></td><td>45.00</td></tr></table> <p>45 credits of the courses taken in the Department of Design and Computation Arts and other Fine Arts Departments as specified in §81.90</p>	The Computer Science component consists of:		Credits		Computer Science Core (see §71.70.2)	36.00	ENCS 282	Technical Writing and Communication	3.00	COMP 471	Computer Graphics	4.00		2 elective Computer Science credits chosen from COMP courses numbered above 300 (see Note 1)	2.00			45.00
The Computer Science component consists of:		Credits																	
	Computer Science Core (see §71.70.2)	36.00																	
ENCS 282	Technical Writing and Communication	3.00																	
COMP 471	Computer Graphics	4.00																	
	2 elective Computer Science credits chosen from COMP courses numbered above 300 (see Note 1)	2.00																	
		45.00																	
Admission Requirements	<p>The Computation Arts Major is limited to students who are enrolled in or simultaneously applying for the Computer Science Applications Option and who are qualified for the Fine Arts component. Applicants must fulfil the admission requirements for the Computer Science Option in Computer Applications (see §71.10.2) and be accepted into the Computer Applications Option.</p> <p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Computation Arts. All applicants must submit a portfolio to the Program Office, Visual Arts Building, Room 244, on or before March 1. Further information may be obtained by contacting the Department of Design and Computation Arts.</p>																		

71.85 MATHEMATICS AND STATISTICS AND COMPUTER APPLICATIONS

<i>Faculty</i>	Undergraduate Program Director LEILA KOSSEIM, Associate Professor																																																																																					
<i>Location</i>	Sir George Williams Campus Engineering, Computer Science and Visual Arts Complex, Room: EV 003.144 514-848-2424 ext. 3053																																																																																					
<i>Objectives</i>	The Faculty of Engineering and Computer Science and the Faculty of Arts and Science have created a program of study which combines a comprehensive education in computer science and mathematics. This program resides in both Faculties. In the Faculty of Engineering and Computer Science, it is offered under the aegis of the Bachelor of/Baccalaureate in Computer Science, Computer Applications Option. According to their preferences and aspirations, students may apply either for a Bachelor of/Baccalaureate in Computer Science program, Bachelor of/Baccalaureate in Science program, or Bachelor of/Baccalaureate in Arts program. The Arts and Science offering is described in §31.200. The Computer Science program is described below.																																																																																					
<i>Curriculum</i>	The Computer Applications Option may be taken with a Major in Mathematics and Statistics. It provides a foundation for integrated studies in computer science and mathematics. The mathematics component of the program includes topics that overlap with computer science, such as modelling, symbolic computation, and combinatorics, as well as the standard topics of a mathematical curriculum.																																																																																					
<i>Structure of the Program</i>	The program consists of 90 credits.	<table> <tr> <th colspan="2"></th><th><i>Credits</i></th></tr> <tr><td>COMP 228</td><td></td><td>3.00</td></tr> <tr><td>COMP 229</td><td></td><td>3.00</td></tr> <tr><td>COMP 238 or MAST 217</td><td></td><td>3.00</td></tr> <tr><td>COMP 239</td><td></td><td>3.00</td></tr> <tr><td>COMP 248</td><td></td><td>3.00</td></tr> <tr><td>COMP 249</td><td></td><td>3.00</td></tr> <tr><td>COMP 335</td><td></td><td>3.00</td></tr> <tr><td>COMP 346</td><td></td><td>4.00</td></tr> <tr><td>COMP 348</td><td></td><td>3.00</td></tr> <tr><td>COMP 352</td><td></td><td>3.00</td></tr> <tr><td>COMP 353</td><td></td><td>4.00</td></tr> <tr><td>COMP 354</td><td></td><td>4.00</td></tr> <tr><td>COMP 361 or MAST 334</td><td></td><td>3.00</td></tr> <tr><td>COMP 367 or MAST 332</td><td></td><td>3.00</td></tr> <tr><td>ENCS 282</td><td></td><td>3.00</td></tr> <tr><td>MAST 218</td><td></td><td>3.00</td></tr> <tr><td>MAST 219</td><td></td><td>3.00</td></tr> <tr><td>MAST 221</td><td></td><td>3.00</td></tr> <tr><td>MAST 224</td><td></td><td>3.00</td></tr> <tr><td>MAST 232</td><td></td><td>3.00</td></tr> <tr><td>MAST 234</td><td></td><td>3.00</td></tr> <tr><td>MAST 235</td><td></td><td>3.00</td></tr> <tr><td>MAST 331</td><td></td><td>3.00</td></tr> <tr><td>MAST 333</td><td></td><td>3.00</td></tr> <tr><td>MATH 339</td><td></td><td>3.00</td></tr> <tr><td>Elective credits</td><td></td><td>12.00</td></tr> <tr><td colspan="2"></td><td><hr/>90.00</td></tr> </table>			<i>Credits</i>	COMP 228		3.00	COMP 229		3.00	COMP 238 or MAST 217		3.00	COMP 239		3.00	COMP 248		3.00	COMP 249		3.00	COMP 335		3.00	COMP 346		4.00	COMP 348		3.00	COMP 352		3.00	COMP 353		4.00	COMP 354		4.00	COMP 361 or MAST 334		3.00	COMP 367 or MAST 332		3.00	ENCS 282		3.00	MAST 218		3.00	MAST 219		3.00	MAST 221		3.00	MAST 224		3.00	MAST 232		3.00	MAST 234		3.00	MAST 235		3.00	MAST 331		3.00	MAST 333		3.00	MATH 339		3.00	Elective credits		12.00			<hr/> 90.00
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<i>Admission Requirements</i>	The Computer Science and Mathematics and Statistics program is restricted to students who are enrolled in or simultaneously applying for the Computer Science Applications Option and who are qualified for the mathematics component. Applicants must fulfil the admission requirements for the Computer Science Option in Computer Applications (see §71.10.2) and be accepted into the Computer Applications Option. For admission requirements for the mathematics component, see §31.200.																																																																																					

71.90

GENERAL STUDIES UNIT

Faculty

Chair

THIRUVENGADAM RADHAKRISHNAN,
Professor

Assistant Professors

ROBERT DANISCH
JESSICA MUDRY

Associate Chair

DEBORAH DYSART-GALE, Assistant Professor

Adjunct Assistant Professor

J. BERNICE GOLDSMITH

Extended Term Appointments (ETAs)

NANCY ACEMIAN
AIMAN HANNA
LOUISE QUESNEL

Location

Sir George Williams Campus

Engineering, Computer Science and Visual Arts Complex, Room: EV 006.231
514-848-2424 ext. 5443

Objectives

The General Studies Unit (GSU) has been created with two major objectives. The primary objective of the GSU is to blend the teaching of engineering and technology with skills needed for students to become professionals who are responsible, articulate and ethical. The GSU brings complementary skills and knowledge to engineering and information technology training by offering suitable courses. An additional objective of the GSU is to coordinate and manage those graduate and undergraduate courses in engineering, engineering mathematics, and computer science that are common to multiple departments within the Faculty of Engineering and Computer Science.

71.100

CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS ENGINEERING

Faculty

Acting Director
MOURAD DEBBABI, *Professor*

NIZAR BOUGUILA
BENJAMIN FUNG
ZHIGANG TIAN
LINGYU WANG
BO ZHU

Associate Director
AMR YOUSSEF, *Associate Professor*

Professors
PRABIR BHATTACHARYA
RACHIDA DSSOULI
BRIGITTE JAUMARD

Adjunct Professor
DJEMEL ZIOU

Associate Professors
CHADI ASSI
AMIN HAMMAD
YONG ZENG

Adjunct Associate Professors
FRANÇOIS COSQUER
ROCH GLITHO
IBRAHIM KAMEL
MAIER MARTIN

Assistant Professors
ABDESSAMAD BEN HAMZA
JAMAL BENTAHAR

Adjunct Assistant Professors
MOHAMAD ALLOUCHE
XIAOPING YANG

Location

Sir George Williams Campus
Engineering, Computer Science and Visual Arts Complex, Room: EV 007.640
514-848-2424 ext. 5847

Objectives

The Concordia Institute for Information Systems Engineering is an interdisciplinary fundamental research and R&D learning institute, housing state-of-the-art research in innovative applications of information systems to a wide range of areas, among them telecommunications, software development, electronics, multimedia, aerospace, finance and banking, automotive, manufacturing, and building and construction management.
The Concordia Institute for Information Systems Engineering offers only graduate programs.



faculty of fine arts

81.10 PROGRAMS AND ADMISSION REQUIREMENTS

81.20 DEGREE REQUIREMENTS

81.30 FINE ARTS COURSES OF FACULTY-WIDE INTEREST

81.40 ART EDUCATION

81.50 ART HISTORY

81.60 MEL HOPPENHEIM SCHOOL OF CINEMA

81.60.4 Interdisciplinary Studies in Sexuality

81.70 CONTEMPORARY DANCE

81.80 CREATIVE ARTS THERAPIES

81.90 DESIGN AND COMPUTATION ARTS

81.90.1 Design

81.90.2 Computation Arts

81.100 MUSIC

81.110 STUDIO ARTS

81.110.1 Studio Art

81.110.2 Ceramics

81.110.3 Fibres

81.110.4 Intermedia/Cyberarts

81.110.5 Painting and Drawing

81.110.6 Photography

81.110.7 Print Media

81.110.8 Sculpture

81.120 THEATRE

section 81



81 FACULTY OF FINE ARTS

Dean
CATHERINE WILD

Associate Deans
ANA CAPPELLUTO, *Planning and Academic Facilities*
BRIAN FOSS, *Academic and Student Affairs*
LYNN HUGHES, *Research and International Relations*

<i>Location</i>	<i>Sir George Williams Campus</i> Engineering, Computer Science and Visual Arts Complex, Room: EV 2.781 514-848-2424 ext. 4600 http://www.finearts.concordia.ca																					
<i>Objectives</i>	The Faculty of Fine Arts is recognized internationally for its long-standing record of excellence in undergraduate education in the visual, performing, cinematic, and electronic arts. The Faculty strives to create an environment that reflects the openness and diversity of contemporary culture, with a strong commitment to integrating new technologies with traditional fine arts practices. Programs and courses in studio or academic disciplines situate students within both the pluralism of the university academic experience and an active urban arts milieu.																					
<i>Structure</i>	<p>The Faculty of Fine Arts has two divisions offering numerous programs.</p> <p>The PERFORMING ARTS DIVISION consists of the following:</p> <table><tr><td></td><td><i>Calendar Section</i></td></tr><tr><td>Contemporary Dance</td><td>81.70</td></tr><tr><td>Music</td><td>81.100</td></tr><tr><td>Theatre</td><td>81.120</td></tr></table> <p>The VISUAL ARTS DIVISION consists of the following:</p> <table><tr><td>Art Education – Visual Arts</td><td>81.40</td></tr><tr><td>Art History</td><td>81.50</td></tr><tr><td>Cinema</td><td>81.60</td></tr><tr><td>Creative Arts Therapies</td><td>81.80</td></tr><tr><td>Design and Computation Arts</td><td>81.90</td></tr><tr><td>Studio Arts</td><td>81.110</td></tr></table>			<i>Calendar Section</i>	Contemporary Dance	81.70	Music	81.100	Theatre	81.120	Art Education – Visual Arts	81.40	Art History	81.50	Cinema	81.60	Creative Arts Therapies	81.80	Design and Computation Arts	81.90	Studio Arts	81.110
	<i>Calendar Section</i>																					
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Design and Computation Arts	81.90																					
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81.10 PROGRAMS AND ADMISSION REQUIREMENTS

General admission requirements are listed in §13. Specific requirements for admission to the various programs leading to the BFA degree are set out in the first column of the following listings. They refer to the table of Cegep profiles and other specific requirements defined below.

Profile	Requirements
0.00	Diploma of Collegial Studies (DEC — Diplôme d'études collégiales)
10.12	Mathematics 103, 105, 203
A	Interview/Audition
G	Letter of intent
K	Submission of a portfolio of representative work

Programs offered:

For information concerning any of the following programs, please consult the calendar section listed opposite each program.

Recommended Profile and Specific Requirements	Program	Calendar Section
	<i>Specializations:</i>	
0.00, G,K	Art Education – Visual Arts	81.40
0.00, A,G,K	Design for the Theatre	81.120
0.00, G,K	Film Production	81.60
0.00	Film Studies	81.60
0.00, A	Jazz Studies	81.100
0.00, A	Music Performance Studies	81.100
0.00, A	Music Composition	81.100
0.00, A,G	Theatre and Development	81.120
0.00, A,G	Theatre Performance	81.120
	<i>Majors:</i>	
0.00, G,K	Art Education – Visual Arts	81.40
0.00	Art History	81.50
0.00	Art History and Film Studies	81.50, 81.60
0.00, G,K	Art History and Studio Art	81.50
0.00, G,K	Ceramics	81.110
0.00, 10.12, G,K	Computation Arts	81.90
0.00, A	Contemporary Dance	81.70
0.00, G,K	Design	81.90
0.00, G,K	Electroacoustic Studies	81.100
0.00, G,K	Fibres	81.110
0.00, G,K	Film Animation	81.60
0.00, G,K	Film Production	81.60
0.00	Film Studies	81.60
0.00, A	Integrative Music Studies	81.100
0.00, G,K	Intermedia/Cyberarts	81.110
0.00, G,K	Painting and Drawing	81.110
0.00, G,K	Photography	81.110
0.00, A,G,K	Playwriting	81.120
0.00, G,K	Print Media	81.110
0.00, G,K	Sculpture	81.110
0.00, G,K	Studio Art	81.110
0.00, A,G,K	Theatre	81.120
	<i>Minors:</i>	
0.00	Art History	81.50
0.00, G,K	Art History and Studio Art	81.50
0.00, G	Cinema	81.60
0.00, G,K	Computation Arts	81.90
0.00, G,K	Electroacoustic Studies	81.100
0.00, G,K	Film Animation	81.60
0.00	Film Studies	81.60
0.00	Interdisciplinary Studies in Sexuality	81.60.4
0.00, Theory Test	Music	81.100
0.00, G,K	Photography	81.110
0.00, G,K	Print Media	81.110
0.00	Theatre	81.120

Transfer Students

Applicants who have completed courses in other colleges or universities may be granted credits (advanced standing) on the basis of the programs at Concordia University. These advanced standing credits will normally be awarded as general credits and as such may not be equivalent to specific first-year courses at Concordia.

Applicants to a second undergraduate degree must complete a minimum of 60 credits, other than those credited towards the first degree, at least 36 of which must be taken in the new field of specialization (§16.1.3). Students transferring credits towards a first degree must complete a minimum of 45 credits at Concordia (see §16.1.3).

Students must complete all program and degree requirements, as well as the Faculty of Fine Arts residence requirements (see §81.20.2).

<i>Mature Entry</i>	General admission requirements to the 108-credit program (Mature Entry) are listed in §14. Students admitted into the Faculty of Fine Arts through the Mature Entry plan are required to complete 18 credits in addition to the 90 credits normally required for the BFA degree.
<i>Extended Credit Program</i>	Definition of the Extended Credit Program (ECP) is listed in §13.2. Students admitted to an Extended Credit Program in Fine Arts are required to complete an additional 30 credits for the degree. Advanced standing credits awarded for Ontario Academic Courses (OACs) must be applied towards the ECP portion of a student's degree program.

81.20 DEGREE REQUIREMENTS

Students preparing for the BFA degree require a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours of work spread across lectures, conferences, tutorials, studios, rehearsals or practice periods, tests, examinations, and personal work.

81.20.1 BFA Degree Requirements

1. A candidate for the BFA degree must have qualified for admission to, and successfully completed a program of concentration in the form of a Specialization (See §16.2.3) or Major (See §16.2.3) program in the Faculty of Fine Arts. A selection is made upon entry, prior to registration. The requirement of selecting a program upon entry should not be thought of as being necessarily a final commitment. Students wishing to transfer out of one degree program must satisfy the admission requirements of the program they seek to enter. Program changes are, however, subject to limitations where certain programs are in great demand. Students should be aware that to effect certain transfers they may be required to complete more than the 90 credits normally required for the degree.
2. A candidate for graduation must satisfy the Fine Arts General Education Requirement by successfully completing a minimum of six credits from course offerings outside the Fine Arts academic sectors (Visual Arts and Performing Arts). The non-Fine Arts academic sectors are defined as: Humanities, Social Sciences, Sciences, Business, Engineering and Computer Science. BFA students graduating with the Major in Computation Arts – Option Computer Applications double program or the Specialization in Art Education – Visual Arts will be considered as having satisfied the General Education Requirement.
The courses FLIT 382; COMS 301, 304, 416, 434 can only be applied within a student's degree as electives from the Visual Arts sector and therefore do not fulfil the General Education Requirement. This list is subject to modification.
3. A candidate for graduation must have successfully completed the course FFAR 250⁶.
4. A candidate for graduation normally may apply no more than 54 credits in studio work towards the 90 credits required for the BFA degree.
5. A candidate for graduation must fulfil all university graduation requirements (See §16.2.4).
6. The credits obtained for any course may not be used to satisfy the requirements of more than one program.
7. Normally, students may take a maximum of nine credits of ESL courses for degree credit.

81.20.2 Residence Requirements

Students are subject to the university residence requirement (see §16.1.3) which states that of the 90 credits required for the BFA degree, a minimum of 45 credits must be taken at Concordia University. Combining both residence requirements implies that the full-time student must enrol for a minimum of two years of study at Concordia University.

To fulfil the residence requirements for a BFA degree with a concentration in:

1. Ceramics, Fibres, Painting and Drawing, Print Media, Sculpture, or Studio Art: a minimum of 30 credits in Studio Art and six credits in Art History must be completed at Concordia.
2. Art Education – Visual Arts, Art History, Art History and Studio Art, Art History and Film Studies, Computation Arts, Design, Film Animation, Film Production, Film Studies, Photography, Contemporary Dance, or Intermedia/Cyberarts: at least half of the concentration requirements must be completed at Concordia.
3. Theatre, Theatre and Development, Theatre Performance, Playwriting, or Design for the Theatre: a minimum of 30 credits from the Department of Theatre must be completed at Concordia.

4. Integrative Music Studies, Electroacoustic Studies, Jazz Studies, Music Performance Studies, or Music Composition: a minimum of 30 credits required from the Department of Music must be completed at Concordia.
5. Minor programs: at least half of the required credits must be completed at Concordia.

81.20.3
Course Load

The normal course load for students enrolled in the Faculty of Fine Arts is 30 credits per year for all full-time students, and a maximum of 18 credits per year for part-time students.

- i) Full-time students may not register for more than 18 credits of their maximum 30 credits in any studio area in any given academic year. Part-time students may not register for more than 12 credits.
- ii) Students may register for a maximum of six credits in which films are produced as a course requirement during any given academic year. See §81.60.2 for list of courses. Also, students are limited, during their degree program, to 18 credits in Film Production or 24 credits in Film Animation courses in which films are produced as a course requirement (§81.60.2).
- iii) Students may register for a maximum of six credits in Theatre Production in any given academic year, up to a maximum of 18 credits in all.
- iv) Students may register for a maximum of six credits in Music Private Study in any given academic year, up to a maximum of 18 credits in their degree program.
- v) Students may register for a maximum of nine credits in Independent Study courses in their degree program. In the case of disciplines not offering three-credit Independent Study courses, students may register for a maximum of two six-credit Independent Study courses in their degree program.

81.20.4
**Academic
Performance
Requirements**

The system used by the Faculty of Fine Arts to assess academic performance at the undergraduate level is based on the Annual Weighted Grade Point Average (WGPA). See §16.3.11 for definition of Annual WGPA.

Acceptable standing requires that a student obtain an Annual WGPA of at least 2.00. For graduation purposes, acceptable standing requires that a student obtain a final graduation WGPA of at least 2.00. *NOTE:* Although a "C-" grade (1.70 grade points) is designated as satisfactory for an individual course in §16.3.3, an Annual WGPA of 2.00 is required to remain in acceptable standing.

Conditional standing results when a student obtains an Annual WGPA of less than 2.00, but at least 1.50. A student is not permitted to obtain two consecutive conditional standing assessments. Students in conditional standing may not write supplemental examinations and will not be permitted to register for further study until their program has been approved by the appropriate advisor in their Faculty or department. They must obtain acceptable standing at the time of their next assessment.

Failed standing results when a student obtains an Annual WGPA of less than 1.50, or conditional standing in two consecutive periods of assessment. Failed students may not write supplemental examinations. In order to continue in their program, failed students must apply for readmission through the Office of Student Affairs. If readmitted, failed students will be placed on academic probation. In addition, there may be other conditions determined by the Faculty at the time of readmission. Decisions of the relevant authority in the Faculty are final. Failed students wishing to be admitted to another Faculty must apply through the Dean's Office of the Faculty to which they wish to be admitted.

Graduation Requirements

Students must satisfy all course requirements and be in acceptable standing.

The standing of potential graduates who have attempted less than 12 credits since their last assessment is determined on the basis that these credits constitute an extension of the last assessment period. Potential graduates who fail to meet the requirements of acceptable standing, but meet the requirements of conditional standing, will have the following options:

- a) register for an additional 12 credits and, at the next assessment, meet the requirements for acceptable standing;
- or
- b) register for fewer than 12 additional credits. In this case, standing will be determined on the basis that these extra credits constitute an extension of the last assessment period.

For both option a) and option b), the additional courses taken must be selected in consultation with the student's department.

81.20.5
Lapsed Program

Students enrolled in a Specialization or Major program in the Faculty of Fine Arts who have not registered for a course for nine consecutive terms or more will have a lapsed notation entered on their student record. Lapsed students must meet with the appropriate advisor in order to resume their program and be made aware of possible program modifications. In some cases, students might be required to submit a new application.

81.30 FINE ARTS COURSES OF FACULTY-WIDE INTEREST

Courses

The following courses provide a format in which topics of faculty-wide interest are considered:

FFAR:

FFAR 250 *The Visual and Performing Arts in Canada* (6 credits)

A lecture course surveying the current practice and theory of the visual and performing arts in Canada, with a special focus on interdisciplinary forms. The institutional, regional, and cultural traditions of the arts in Canada are discussed as contexts of contemporary developments; as well, artistic avant-gardes are related to popular cultures and the media. Invited guests and other experts in various disciplines are an essential part of the syllabus.

NOTE: Students who have received credit for FFAR 251 or 252 or IDYS 250 may not take this course for credit.

FFAR 251 *The Visual and Performing Arts in Canada I* (3 credits)

A lecture course surveying the current practice and theory of the visual and performing arts in Canada, with a special focus on interdisciplinary forms. The institutional, regional, and cultural traditions of the arts in Canada are discussed as contexts of contemporary developments; as well, artistic avant-gardes are related to popular cultures and the media. Invited guests and other experts in various disciplines are an essential part of the syllabus. This course is equivalent to the first term of FFAR 250.

NOTE: Students enrolled in a BFA program must register for FFAR 250. Students who have received credit for FFAR 250 or 252 in a previous academic year may not take this course for credit.

NOTE: Students who have received credit for IDYS 251 may not take this course for credit.

FFAR 252 *The Visual and Performing Arts in Canada II* (3 credits)

A lecture course surveying the current practice and theory of the visual and performing arts in Canada, with a special focus on interdisciplinary forms. The institutional, regional, and cultural traditions of the arts in Canada are discussed as contexts of contemporary developments; as well, artistic avant-gardes are related to popular cultures and the media. Invited guests and other experts in various disciplines are an essential part of the syllabus. This course is equivalent to the second term of FFAR 250.

NOTE: Students enrolled in a BFA program must register for FFAR 250. Students who have received credit for FFAR 250 or 251 in a previous academic year may not take this course for credit.

NOTE: Students who have received credit for IDYS 252 may not take this course for credit.

FFAR 253 *Art, Science and Technology: Interactions* (3 credits)

An introduction, for non-Fine Arts students, to the rich historical and contemporary relationships between art, science, and technology. Topics range from the scientific and engineering drawings of Leonardo, through to the influence of scientists such as Isaac Newton, the impact of the scientific and industrial revolutions on 19th- and 20th-century aesthetic concerns, to the Internet and "new media." The course does not require prior knowledge of the visual arts, science, or technology.

NOTE: Students enrolled in a Fine Arts program (BFA Specialization, Major, or Minor) may not take this course for credit.

NOTE: Students who have received credit for this topic under an FFAR 398 number may not take this course for credit.

FFAR 290 *(also listed as INTE 270) HIV/AIDS: Cultural, Social and Scientific Aspects of the Pandemic* (6 credits)

An interdisciplinary survey of the major issues and challenges of the HIV pandemic. Such topics as the biology of the virus, therapeutic, clinical and epidemiological research developments, the social costs of sexual taboos and discrimination, and media and artistic representation by and of people with HIV are presented by faculty and visiting community experts. The epidemics in the Western hemisphere, Africa, Asia, and other regions are addressed. Learning is based on lectures, weekly tutorials, and community involvement.

NOTE: Students who have received credit for FFAR 390, INTE 270, INTE 390, or for this topic under an FFAR 398 or INTE 398 number may not take this course for credit.

FFAR 398 *Special Topics in Fine Arts* (3 credits)

A course which provides an opportunity for the study of specialized aspects of Fine Arts.
NOTE C/See §200.3

FFAR 399 *Special Topics in Fine Arts* (6 credits)

A course which provides an opportunity for the study of specialized aspects of Fine Arts.
NOTE C/See §200.3

81.40 ART EDUCATION

Faculty	Chair CATHY MULLEN, <i>Professor</i>	Associate Professors LORRIE BLAIR RICHARD LACHAPELLE PAUL LANGDON
	Distinguished Professors Emeriti STANLEY HORNER LEAH SHERMAN	Assistant Professor LINDA SZABAD-SMYTH
	Professors Emeriti ANDREA FAIRCHILD ROBERT J. PARKER	
	Professors DAVID PARISER ELIZABETH J. SACCA	
Location	Sir George Williams Campus Engineering, Computer Science and Visual Arts Complex, Room: EV 2.619 514-848-2424 ext. 4646	
Department Objectives	<p>The Art Education Department offers two teacher preparation programs that emphasize the student's development as artist, researcher, and professional. Students are expected to develop an artistic and teaching practice that connects conceptual understanding, critical reflection, and practical experience. The Major in Art Education – Visual Arts is a three-year program. In the first two years, students are introduced to the fundamentals of the field of art education. In the third year, students concentrate on professional practice and performance as community art educators in settings such as community centres, adult education programs, recreation programs, and museums.</p> <p>The Specialization in Art Education – Visual Arts is a four-year program leading to teacher certification as an elementary and secondary school art specialist. The program conforms to the MELS requirements for an extended teaching practicum and preparation in visual arts. The number of practicum hours is determined by the MELS and may be subject to change.</p>	
Programs	<p><i>Students are responsible for fulfilling their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20.</i></p> <p><i>The superscript indicates credit value.</i></p> <div> <div> <p>N.B. The BFA Specialization in Art Education – Visual Arts leads to teacher certification by the <i>ministère de l'Éducation, du Loisir et du Sport du Québec</i> (MELS).</p> <p>120 BFA Specialization in Art Education – Visual Arts</p> <p>27 ARTE 220³, 230³, 320³, 330³, 340³, 420³, 422³, 424³, 434³</p> <p>3 EDUC 301³ or 305³</p> <p>9 ARTE 352³, 354³, 498³</p> <p>12 ARTE 423³, 425⁹</p> <p>6 Chosen from ARTE 398³ offerings</p> <p>6 FFAR 250⁶</p> <p>12 DRAW 200⁶; PTNG 200⁶</p> <p>6 Studio Art courses chosen from FBRS 240⁶, 260⁶; CERA 230⁶; SCUL 210⁶</p> <p>6 Studio Art electives</p> <p>6 Art History courses chosen from Group C</p> <p>6 Studio Art or Art History electives</p> <p>6 Free electives</p> <p>15 EDUC 210⁶, 445³, 450³, 454³</p> </div> <div> <p>66 BFA Major in Art Education – Visual Arts</p> <p>21 ARTE 220³, 230³, 320³, 330³, 340³, 432³, 434³</p> <p>6 Studio Art courses chosen from CERA 230⁶; FBRS 240⁶, 260⁶; SCUL 210⁶; PTNG 200⁶</p> <p>6 Studio Art electives</p> <p>3 ARTE 398³</p> <p>6 DRAW 200⁶</p> <p>6 Chosen from ARTE 352³, 354³, 398³, 498³</p> <p>6 Art History electives</p> <p>6 Studio Art or Art History elective credits</p> <p>6 EDUC 210⁶</p> <p><i>NOTE: This program does not lead to teacher certification. Electives permit a wider choice in courses in preparation for graduate study in areas such as art therapy, museum education, recreation, and arts administration.</i></p> </div> </div>	

81.40.1
Admission to the
Specialization and
Major in Art Education
– Visual Arts

In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Art Education – Visual Arts. All applicants must submit a *portfolio* of their own work, as well as a *letter of intent*, as part of the admission process. For more information concerning these additional requirements and submission deadline dates, please visit the following website: <http://fofa.concordia.ca/portfolioaudition>.

All entering students are automatically enrolled in the Major. The Specialization is offered at the third-year and fourth-year levels. Upon completion of the second year (completion of 60 credits including ARTE 220, 230, 320, 330), students in the Major may apply for transfer to the Specialization program. Admission to the Specialization is assessed on the basis of the applicant's suitability for school-based teaching, grades for courses completed in the first two years, a letter of intent, two references, the completion of a 70-hour internship in an elementary school (ARTE 230), and, in some cases, an interview. Students must apply to the Department by the deadline of March 1.

Academic Standing

To remain in good academic standing in the Specialization and be recommended for the Quebec Art Specialist teaching permit, students must:

1. Achieve at least a "B" grade in the practicum courses ARTE 420, 423, and 425.
 - a. Students who fail any of the above courses are required to withdraw from the Specialization program.
 - b. Students who obtain a passing grade in any of the above courses that is below a "B" will be placed on conditional standing within the program and will be so informed in writing. These students will be allowed to repeat the practicum only once in order to achieve the required grade. Students who do not achieve the required grade in the repeated course will be required to withdraw from the Specialization program.
 2. Maintain an overall grade average of "B-" or higher in courses of the third and fourth years. Students who do not maintain the minimum grade average during that time will be required to withdraw from the Specialization program.
- NOTE: ARTE 423 is evaluated on a Pass/Fail basis and therefore is not included in the calculation of the grade point average.*
3. To be recommended to the Quebec Teachers Certification Service for a Quebec permanent teaching diploma, students must satisfy the English language proficiency requirements of the program.
 4. Students must also satisfy the University's writing skills requirement.

Courses

Art Education:

ARTE 201 *Art in Early Childhood I*
 (3 credits)

Prerequisite: Enrolment in the Specialization in Early Childhood or Major in Child Studies, or written permission of the Department. An introductory study of the art-making process in early childhood. This course is a studio workshop which investigates potential media and teaching approaches appropriate for the young child.

ARTE 202 *Art in Early Childhood II*
 (3 credits)

Prerequisite: ARTE 201. A continuation of ARTE 201.

ARTE 203 *Arts in Recreation* (3 credits)

A workshop/seminar course in which students are introduced to various art forms currently used in recreation centres. Intrinsic to the course content is a consideration of the role of the arts in recreation and leisure populations.

ARTE 220 *Foundations of Art Education*
 (3 credits)

A survey of content and contexts of the art education profession. In studio activities, students explore art making skills and techniques, creative

expression, artistic heritage and art in society. This content is related to lesson planning for schools, museums, and community settings. Students are introduced to children's artistic development as well as basic management and safety standards for the art classroom. Practicum experiences will include observation of children's art processes and some teaching.

NOTE: Students who have received credit for ARTE 200 may not take this course for credit.

ARTE 230 *Practicum: Observation and Analysis of Children's Learning* (3 credits)

Prerequisite: ARTE 220. This practicum course gives students first-hand experience and knowledge of children's learning as it occurs in the schools. It also provides students with a theoretical framework for observing and analysing individual and group learning processes in the art classroom. It permits students to develop preliminary skills in assessing and meeting the needs of individual children. Students are introduced to methods for evaluating learning and for critically reflecting on learning and teaching. The practicum experience consists of a placement in a primary school one day a week for a total of 70 hours.

NOTE: Students who have received credit for ARTE 200 may not take this course for credit.

ARTE 320 *Multi-Disciplinary Approaches to Art and Teaching* (3 credits)

Prerequisite: ARTE 230. This course investigates various creative, historical, and critical approaches to art as a basis for developing curriculum content. Students expand their repertoire of skills and techniques for planning and teaching lessons with multiple dimensions. Students also consider the specific requirements of students with special needs and those at different age levels. This course includes a practicum component.
NOTE: Students who have received credit for ARTE 300 may not take this course for credit.

ARTE 330 *Introduction to Community Art Education* (3 credits)

Prerequisite: ARTE 320. The course investigates the various issues and concerns related to community art education. Students develop skills in assessing community needs. After observation and studio research, students develop and propose an art education curriculum for a specific community setting or population. This course includes a practicum component.
NOTE: Students who have received credit for ARTE 300 may not take this course for credit.

ARTE 340 *Art Education for Adolescents and Adults* (3 credits)

Prerequisite: 24 credits in the Major or Specialization in Art Education – Visual Arts. Students are introduced to theories of adolescent and adult development, and the effect these have on their behaviour and attitudes towards learning and art making. Students learn about different types of group management and support techniques appropriate for adolescent and adult students. The course presents ways to effectively integrate aspects of popular culture into curriculum planning.

ARTE 352 *Light-Based Media* (3 credits)

Prerequisite: 24 credits in the Major or Specialization in Art Education – Visual Arts, or permission of the Department. Students develop proficiency in a variety of imaging processes, including traditional and digital photography, that are suitable for school or community art education programs. Students investigate related approaches to teaching and curriculum.
NOTE: Students are expected to have basic computing skills or to have completed INTE 290 before registering for this course. Students who have received credit for ARTE 430 may not take this course for credit.

ARTE 354 *Time-Based Media* (3 credits)

Prerequisite: 24 credits in the Major or Specialization in Art Education – Visual Arts, or permission of the Department. Students develop proficiency in a variety of time-based media, including video and multi-media installations that are suitable for school or community art education programs. Students investigate related approaches to

teaching and curriculum.

NOTE: Students are expected to have basic computing skills or to have completed INTE 290 before registering for this course. Students who have received credit for ARTE 430 may not take this course for credit.

ARTE 398 *Special Topics in Art Education* (3 credits)

A course which provides an opportunity for the study of specialized aspects of art education. Topics chosen for consideration vary from year to year.

ARTE 420 *Art Education for Elementary School* (3 credits)

Prerequisite: ARTE 330. Students apply theories of development and learning to design appropriate lessons for elementary school practicum settings. The course explores currently available teaching resources such as textbooks, MELS curriculum, and communication technologies. The course also investigates processes and procedures for assessment appropriate to an elementary art classroom. A practicum of 140 hours in an elementary classroom is required in this course.

ARTE 422 *Art Education in the Secondary School I* (3 credits)

Prerequisite: ARTE 434. A lecture/seminar course where students identify themes and concerns that are appropriate to secondary school students with diverse backgrounds. Students explore the currently available teaching resources such as MELS curriculum and others, textbooks and communication technology.

ARTE 423 *Practicum in the Secondary School I* (3 credits)

Prerequisite: ARTE 420 and ARTE 434. Student teachers observe and assist a secondary school art specialist in the development and implementation of an effective art program during a practicum of 140 hours. Student teachers also observe the social and cultural dynamics of the school and initiate positive interactions with their students and professional colleagues.

ARTE 424 *Art Education in the Secondary School II* (3 credits)

Prerequisite: ARTE 422. The course concentrates on the objectives, goals, and content of the *MELS Secondary School Curriculum Guidelines* in visual arts. Students analyse, reflect on, and evaluate their own practice and philosophy of art learning and teaching within the wider context of school and society.

ARTE 425 *Practicum in the Secondary School II* (9 credits)

Prerequisite: ARTE 423. This course is a 350-hour teaching practicum in a secondary school. Student teachers implement curriculum planning and classroom management that

respects ethnic, socio-economic, and cultural diversity, and that successfully integrates students with special needs. Student teachers also apply safe use of art materials and appropriate art learning assessment procedures.

**ARTE 432 *Community Art Education:
Theory and Practice* (3 credits)**

Prerequisite: ARTE 330. Students connect theory and practice by planning and teaching appropriate art events for a particular community setting or population. Students investigate organizational and administrative approaches necessary for successful community art education programming. This course includes a practicum component.

**ARTE 434 *Professional Practice for Art
Educators* (3 credits)**

Prerequisite: ARTE 420 or 432. Students develop, teach, and then evaluate an art program during a practicum in a community setting. Students formulate and express a philosophy of teaching

art in a community setting that connects theory, critical thinking, reflective practice and fieldwork experience. Students investigate entrepreneurial skills needed to market community art programs. Specialization program students must complete a 35-hour practicum component teaching pre-school children; Major program students must complete a practicum in a community setting.

**ARTE 498 *Special Topics in Inter-Related
Media and Technologies*
(3 credits)**

Prerequisite: 24 credits in the Major or Specialization in Art Education – Visual Arts, or permission of the Department. A course which provides an opportunity for the study of specialized aspects of art education. Topics chosen for consideration vary from year to year.

NOTE: Students are expected to have intermediate computing skills in image-manipulation processes, word processing, and Internet searches.

81.50 ART HISTORY

Faculty	<div>Chair LOREN LERNER, Professor</div> <div>Professors JEAN BELISLE BRIAN FOSS CATHERINE MACKENZIE SANDRA PAIKOWSKY</div>	<div>Associate Professors KRISTINA HUNEALT, University Research Chair MARTHA LANGFORD JOHANNE SLOAN</div> <div>Assistant Professors ROBERT GIFFORD ELAINE PATERSON</div>		
Location	Sir George Williams Campus Engineering, Computer Science and Visual Arts Complex, Room: EV 3.809 514-848-2424 ext. 4700			
Department Objectives	Art History provides the student scholar and the student artist with an understanding of creative and visual responses to the world in both the past and the present. Art History is a lively, at times even controversial discipline that encourages the study of art objects with its historical, cultural, political, social, and economic contexts. The Department of Art History offers a full range of courses which allows the student to concentrate on particular art historical concerns or to investigate diverse issues within the discipline. Students can explore the multidisciplinary aspects of art history for graduate study and for future careers in a variety of fields including museums, galleries and libraries, conservation, education, journalism, and research. The Department of Art History offers Major and Minor programs, providing students with a solid foundation in the critical inquiries involved in a full understanding of the work of art and its context. Also available are the Major and Minor programs in Art History and Studio Art that balance studio work with art historical and theoretical studies, and the Major in Art History and Film Studies which examines art and film from related perspectives.			
Programs	<p>Students are responsible for satisfying their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20. The superscript indicates credit value.</p> <table><tr><td><div>66 BFA Major in Art History</div><div>6 ARTH 200⁶</div><div>3 ARTH 300³</div><div>6 Chosen from Group A</div><div>3 Group B: ARTH 360³, 361³, 362³</div><div>3 Group B: ARTH 363³, 364³, 365³</div><div>3 Group B: ARTH 366³, 367³, 368³</div><div>3 Group B: Art History electives</div><div>6 Chosen from Group C</div><div>6 Chosen from Group D</div><div>3 Chosen from Group E</div><div>*24 Chosen from at least three Groups in Art History</div><div>*Students may substitute credits from the Faculty of Fine Arts for up to 12 credits in Art History.</div><div>60 BFA Major in Art History and Film Studies</div><div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div><div>3 Chosen from ARTH 353³, 354³</div><div>6 Chosen from ARTH 366³, 367³, 368³</div><div>3 Chosen from ARTH 370³, 371³, 372³, 373³, 374³, 375³, 376³</div><div>3 Chosen from ARTH 379³, 381³, 388³, 400³</div><div>3 Chosen from ARTH 383³, 384³, 385³, 386³, 387³, 389³, 391³, 392³</div><div>3 Art History electives</div></td><td><div>6 FMST 212⁶</div><div>6 Chosen from FMST 311³, 312³, 318³, 321⁶, 325³, 332³; VDEO 350⁶</div><div>6 Chosen from FMST 211⁶, 322⁶</div><div>3 Chosen from FMST 214³, 215³, 217³, 418³, 419³</div><div>3 Chosen from FMST 327³, 329³, 416³, 422³, 423³, 424³, 425³</div><div>3 Film Studies electives</div><div>3 ARTH 348³/FMST 348³</div><div>3 ARTH 448³/FMST 448³</div><div>60 BFA Major in Art History and Studio Art</div><div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div><div>3 ARTH 300³</div><div>6 Chosen from Studio Art electives in consultation with an advisor</div><div>21 Art History electives</div><div>24 Studio Art electives chosen from studio courses offered by the Departments of Design Art and Studio Arts</div><div>30 Minor in Art History</div><div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History.</div><div>3 ARTH 300³</div></td></tr></table>		<div>66 BFA Major in Art History</div> <div>6 ARTH 200⁶</div> <div>3 ARTH 300³</div> <div>6 Chosen from Group A</div> <div>3 Group B: ARTH 360³, 361³, 362³</div> <div>3 Group B: ARTH 363³, 364³, 365³</div> <div>3 Group B: ARTH 366³, 367³, 368³</div> <div>3 Group B: Art History electives</div> <div>6 Chosen from Group C</div> <div>6 Chosen from Group D</div> <div>3 Chosen from Group E</div> <div>*24 Chosen from at least three Groups in Art History</div> <div>*Students may substitute credits from the Faculty of Fine Arts for up to 12 credits in Art History.</div> <div>60 BFA Major in Art History and Film Studies</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div> <div>3 Chosen from ARTH 353³, 354³</div> <div>6 Chosen from ARTH 366³, 367³, 368³</div> <div>3 Chosen from ARTH 370³, 371³, 372³, 373³, 374³, 375³, 376³</div> <div>3 Chosen from ARTH 379³, 381³, 388³, 400³</div> <div>3 Chosen from ARTH 383³, 384³, 385³, 386³, 387³, 389³, 391³, 392³</div> <div>3 Art History electives</div>	<div>6 FMST 212⁶</div> <div>6 Chosen from FMST 311³, 312³, 318³, 321⁶, 325³, 332³; VDEO 350⁶</div> <div>6 Chosen from FMST 211⁶, 322⁶</div> <div>3 Chosen from FMST 214³, 215³, 217³, 418³, 419³</div> <div>3 Chosen from FMST 327³, 329³, 416³, 422³, 423³, 424³, 425³</div> <div>3 Film Studies electives</div> <div>3 ARTH 348³/FMST 348³</div> <div>3 ARTH 448³/FMST 448³</div> <div>60 BFA Major in Art History and Studio Art</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div> <div>3 ARTH 300³</div> <div>6 Chosen from Studio Art electives in consultation with an advisor</div> <div>21 Art History electives</div> <div>24 Studio Art electives chosen from studio courses offered by the Departments of Design Art and Studio Arts</div> <div>30 Minor in Art History</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History.</div> <div>3 ARTH 300³</div>
<div>66 BFA Major in Art History</div> <div>6 ARTH 200⁶</div> <div>3 ARTH 300³</div> <div>6 Chosen from Group A</div> <div>3 Group B: ARTH 360³, 361³, 362³</div> <div>3 Group B: ARTH 363³, 364³, 365³</div> <div>3 Group B: ARTH 366³, 367³, 368³</div> <div>3 Group B: Art History electives</div> <div>6 Chosen from Group C</div> <div>6 Chosen from Group D</div> <div>3 Chosen from Group E</div> <div>*24 Chosen from at least three Groups in Art History</div> <div>*Students may substitute credits from the Faculty of Fine Arts for up to 12 credits in Art History.</div> <div>60 BFA Major in Art History and Film Studies</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div> <div>3 Chosen from ARTH 353³, 354³</div> <div>6 Chosen from ARTH 366³, 367³, 368³</div> <div>3 Chosen from ARTH 370³, 371³, 372³, 373³, 374³, 375³, 376³</div> <div>3 Chosen from ARTH 379³, 381³, 388³, 400³</div> <div>3 Chosen from ARTH 383³, 384³, 385³, 386³, 387³, 389³, 391³, 392³</div> <div>3 Art History electives</div>	<div>6 FMST 212⁶</div> <div>6 Chosen from FMST 311³, 312³, 318³, 321⁶, 325³, 332³; VDEO 350⁶</div> <div>6 Chosen from FMST 211⁶, 322⁶</div> <div>3 Chosen from FMST 214³, 215³, 217³, 418³, 419³</div> <div>3 Chosen from FMST 327³, 329³, 416³, 422³, 423³, 424³, 425³</div> <div>3 Film Studies electives</div> <div>3 ARTH 348³/FMST 348³</div> <div>3 ARTH 448³/FMST 448³</div> <div>60 BFA Major in Art History and Studio Art</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History</div> <div>3 ARTH 300³</div> <div>6 Chosen from Studio Art electives in consultation with an advisor</div> <div>21 Art History electives</div> <div>24 Studio Art electives chosen from studio courses offered by the Departments of Design Art and Studio Arts</div> <div>30 Minor in Art History</div> <div>6 ARTH 200⁶ to be taken as first six credits in studies in Art History.</div> <div>3 ARTH 300³</div>			

	21	Art History electives chosen from at least three of the Groups in Art History, in consultation with an assigned advisor	3	ARTH 300 ³	6	Chosen from Studio Art electives in consultation with an advisor
			6-9	Art History electives	6-9	Studio Art electives
	30	Minor in Art History and Studio Art				
	6	ARTH 200 ⁶ to be taken as first six credits in studies in Art History				
<hr/>						
<i>Art History Co-operative Program</i>	The Art History co-operative program is available to selected students who are enrolled in the BFA program and are majoring in Art History. The academic content of the co-op program is identical to the regular program with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada. Please see \$24 for specific details concerning the curriculum.					
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<i>81.50.1 Admission to Art History, Art History and Studio Art, and Art History and Film Studies Programs</i>	There are no specific courses or procedures required for the Major and Minor in Art History and the Major in Art History and Film Studies other than the successful completion of a two-year pre-university Cegep program (or equivalent). In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major or Minor in Art History and Studio Art. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i> , as part of the admission process. For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition .					
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	GROUPS:					
<i>A— Media Based Studies</i>	ARTH 262	Aspects of the History of Drawing (3 credits)	ARTH 352	Studies in the History of Fibre Art (3 credits)		
	ARTH 263	Aspects of the History of the Print (3 credits)	ARTH 353	Technology and Contemporary Art (3 credits)		
	ARTH 264	Aspects of the History of Ceramics (3 credits)	ARTH 354	Studies in Interdisciplinarity in the Visual Arts (3 credits)		
	ARTH 265	Aspects of the History of Sculpture (3 credits)	ARTH 355	Studies in Architecture (3 credits)		
	ARTH 266	Aspects of the History of Fibre Art (3 credits)	ARTH 356	Studies in the Materials and Processes of Art (3 credits)		
	ARTH 267	Aspects of the History of Photography (3 credits)	ARTH 357	Studies in the History of Craft and the Decorative Arts (3 credits)		
	ARTH 348	Special Topics in Art and Film (3 credits)	ARTH 358	Studies in the History of Media Art (3 credits)		
	ARTH 349	Studies in the History of the Print (3 credits)	ARTH 448	Advanced Seminar in Art and Film (3 credits)		
	ARTH 350	Studies in the History of Ceramics (3 credits)				
	ARTH 351	Studies in the History of Sculpture (3 credits)				
<i>B— Period Studies</i>	ARTH 270	Icons of Architectural History (3 credits)	ARTH 366	Studies in Nineteenth-Century Art and Architecture (3 credits)		
	ARTH 360	Studies in Ancient Greek Art and Architecture (3 credits)	ARTH 367	Studies in Twentieth-Century Art and Architecture (3 credits)		
	ARTH 361	Studies in Ancient Roman Art and Architecture (3 credits)	ARTH 368	Studies in Contemporary Art and Architecture (3 credits)		
	ARTH 362	Studies in Early Christian and Byzantine Art and Architecture (3 credits)	ARTH 369	Studies in Near Eastern Art and Architecture (3 credits)		
	ARTH 363	Studies in Medieval Art and Architecture (3 credits)	ARTH 450	Advanced Seminar in the History of Art and Architecture (3 credits)		
	ARTH 364	Studies in Renaissance Art and Architecture (3 credits)	ARTH 498	Special Topics in the History of Art and Architecture (3 credits)		
	ARTH 365	Studies in Seventeenth- and Eighteenth-Century Art and Architecture (3 credits)				

C — Art in Canada	ARTH 271	Introduction to Canadian Art (3 credits)	ARTH 373	Issues in Contemporary Canadian Art (3 credits)
	ARTH 370	Studies in Canadian Art (3 credits)	ARTH 374	Architecture and Urbanism in Montreal (3 credits)
	ARTH 371	Studies in Canadian Architecture (3 credits)	ARTH 375	Issues in the Montreal Art Milieu (3 credits)
	ARTH 372	Issues in Contemporary Canadian Architecture (3 credits)	ARTH 376	Topics in Amerindian and Inuit Art (3 credits)
D — Theory and Criticism	ARTH 200	Perspectives of Art History (6 credits)	ARTH 384	Theories of Representation (3 credits)
	ARTH 300	Art Historical Methods (3 credits)	ARTH 385	Colour: Theory and Application in the Visual Arts (3 credits)
	ARTH 379	Postcolonial Theory in Art History (3 credits)	ARTH 386	Art and the Viewer (3 credits)
	ARTH 380	Histories of Art History (3 credits)	ARTH 387	Issues in Art and Criticism (3 credits)
	ARTH 381	Feminism and Art History (3 credits)	ARTH 389	Issues in Ethnocultural Art Histories (3 credits)
	ARTH 383	Art and Philosophy (3 credits)	ARTH 400	Advanced Seminar in Art Historical Method (3 credits)
E — Art and Society	ARTH 283	The Life and Work of ... (3 credits)	ARTH 391	Art and its Changing Contexts (3 credits)
	ARTH 290	Art History and Archaeology (3 credits)	ARTH 392	Gender Issues in Art and Art History (3 credits)
	ARTH 298	Special Topics in Genre Studies (3 credits)	ARTH 396	Art and Culture (3 credits)
	ARTH 388	Narration and Art (3 credits)	ARTH 398	Special Topics in Art and Society (3 credits)
	ARTH 390	Art and the Museum (3 credits)		
F — Tutored Studies	ARTH 401	Independent Studies in Art History (3 credits)	ARTH 403	Studies in Art History Practice (3 credits)
Courses	ARTH 200	Perspectives of Art History (6 credits) A critical overview of the history of art and architecture and a selective examination of canonical figures, movements, periods, and thematic issues. <i>NOTE: Students who have received credit for ARTH 284 may not take this course for credit.</i>	ARTH 266	Aspects of the History of Fibre Art (3 credits) A selective examination of the development of fibre art. <i>NOTE A/See \$200.3</i>
	ARTH 262	Aspects of the History of Drawing (3 credits) A selective examination of drawing as an art form and of its relation to painting and other visual arts. <i>NOTE A/See \$200.3</i>	ARTH 267	Aspects of the History of Photography (3 credits) A selective examination of the development and uses of photography. <i>NOTE: Students who have received credit for PHOT 250 may not take this course for credit.</i>
	ARTH 263	Aspects of the History of the Print (3 credits) A selective examination of the development and uses of the print. <i>NOTE A/See \$200.3</i>	ARTH 270	Icons of Architectural History (3 credits) A study of key buildings and the vocabulary of architecture.
	ARTH 264	Aspects of the History of Ceramics (3 credits) A selective examination of the development and uses of ceramics. <i>NOTE A/See \$200.3</i>	ARTH 271	Introduction to Canadian Art (3 credits) An introduction to selected subjects and themes in Quebec and Canadian art. <i>NOTE: This course may not be applied within any program offered in the Faculty of Fine Arts. NOTE: Students who have received credit for ARTH 370 may not take this course for credit.</i>
	ARTH 265	Aspects of the History of Sculpture (3 credits) A selective examination of the development and uses of sculpture.	ARTH 283	The Life and Work of ... (3 credits) A critical examination of an artist's life and work.

- ARTH 290** *Art History and Archaeology*
(3 credits)
A selective examination of the relationship between art history and archaeology.
NOTE A/See §200.3
- ARTH 298** *Special Topics in Genre Studies* (3 credits)
Topics pertaining to categories of subject matter such as landscape, portraiture, and still life.
NOTE C/See §200.3
- ARTH 300** *Art Historical Methods*
(3 credits)
Prerequisite: ARTH 200. An in-depth examination of the methods used in art history to analyse and interpret works of art.
- ARTH 348** *Special Topics in Art and Film*
(3 credits)
Prerequisite: Enrolment in the Major in Art History and Film Studies; ARTH 200 and FMST 212; or written permission of the program director. A comparative examination of some aspects of art history and film studies. *NOTE C/See §200.3*
NOTE: Students who have received credit for FMST 348 may not take this course for credit.
- ARTH 349** *Studies in the History of the Print* (3 credits)
An examination of selected subjects in the history of the print.
- ARTH 350** *Studies in the History of Ceramics* (3 credits)
An examination of selected subjects in the history of ceramics. *NOTE A/See §200.3*
- ARTH 351** *Studies in the History of Sculpture* (3 credits)
An examination of selected subjects in the history of sculpture.
- ARTH 352** *Studies in the History of Fibre Art* (3 credits)
An examination of selected subjects in the history of fibre art. *NOTE A/See §200.3*
- ARTH 353** *Technology and Contemporary Art* (3 credits)
A selective examination of the relationship between technology and contemporary art.
- ARTH 354** *Studies in Interdisciplinarity in the Visual Arts* (3 credits)
A selective examination of historical and contemporary art that utilizes a number of media.
- ARTH 355** *Studies in Architecture*
(3 credits)
An examination of the role and implications of selected materials and technology in architecture.
- ARTH 356** *Studies in the Materials and Processes of Art* (3 credits)
An examination of selected historical and contemporary materials and processes of art.
- ARTH 357** *Studies in the History of Craft and the Decorative Arts*
(3 credits)
Selected subjects in the history of craft and the decorative arts as forms of material culture.
- ARTH 358** *Studies in the History of Media Art* (3 credits)
A selective examination of new media art since the 1990s, including the historical development, thematic content, and conceptual strategies for such practices as video art, projection installation and performance, and experimental film.
- ARTH 360** *Studies in Ancient Greek Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of Ancient Greece.
NOTE A/See §200.3
- ARTH 361** *Studies in Ancient Roman Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of Ancient Rome.
NOTE A/See §200.3
- ARTH 362** *Studies in Early Christian and Byzantine Art and Architecture*
(3 credits)
Selected subjects in the art and architectural production of Early Christian and Byzantine cultures. *NOTE A/See §200.3*
- ARTH 363** *Studies in Medieval Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of the Medieval period.
NOTE A/See §200.3
- ARTH 364** *Studies in Renaissance Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of fifteenth- and sixteenth-century Europe. *NOTE A/See §200.3*
- ARTH 365** *Studies in Seventeenth- and Eighteenth-Century Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of the seventeenth and eighteenth centuries. *NOTE A/See §200.3*
- ARTH 366** *Studies in Nineteenth-Century Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of the nineteenth century.
NOTE A/See §200.3
- ARTH 367** *Studies in Twentieth-Century Art and Architecture* (3 credits)
Selected subjects in the art and architectural production of the twentieth century.
NOTE A/See §200.3
- ARTH 368** *Studies in Contemporary Art and Architecture* (3 credits)
Selected subjects in contemporary art and architectural production. *NOTE A/See §200.3*

ARTH 369 *Studies in Near Eastern Art and Architecture* (3 credits)

Selected subjects in the art and architectural production of the Near East.

ARTH 370 *Studies in Canadian Art* (3 credits)

Selected subjects in the art of Canada.
NOTE A/See §200.3

ARTH 371 *Studies in Canadian Architecture* (3 credits)

Selected subjects in the architecture of Canada.
NOTE A/See §200.3

ARTH 372 *Issues in Contemporary Canadian Architecture* (3 credits)

A consideration of specific issues in the practice of recent architecture in Canada.

ARTH 373 *Issues in Contemporary Canadian Art* (3 credits)

A consideration of specific issues in the recent art of Canada. *NOTE A/See §200.3*

ARTH 374 *Architecture and Urbanism in Montreal* (3 credits)

The relationship of architecture to issues of urbanism, analysed through examples from Montreal's past and/or present.

ARTH 375 *Issues in the Montreal Art Milieu* (3 credits)

An analysis of specific issues in the historical and/or contemporary Montreal art community.

ARTH 376 *Topics in Amerindian and Inuit Art* (3 credits)

A selective examination of the work of First Nations artists.

ARTH 379 *Postcolonial Theory in Art History* (3 credits)

A critical examination of the key concepts of postcolonial art and theory.
NOTE: It is strongly recommended that students take at least six credits in Art History courses before enrolling in this course.

ARTH 380 *Histories of Art History* (3 credits)

The history of art history as a discipline and the concepts of history it uses.
NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 381 *Feminism and Art History* (3 credits)

A consideration of feminism in art history.
NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 383 *Art and Philosophy* (3 credits)

A consideration of the relationship between philosophy, art theory and practice.
NOTE: It is strongly recommended that students

follow at least six credits in Art History courses before enrolling in this course.

ARTH 384 *Theories of Representation* (3 credits)

An examination of the different concepts of representation involved in creating, defining, and interpreting an artwork.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 385 *Colour: Theory and Application in the Visual Arts* (3 credits)

An examination of various theories of colour by artists, philosophers, psychologists, and scientists.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 386 *Art and the Viewer* (3 credits)

A consideration of the relationships between artwork and audience.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 387 *Issues in Art and Criticism* (3 credits)

An examination of selected aspects of the relationship between art, aesthetics, and critical writing. *NOTE A/See §200.3*

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 388 *Narration and Art* (3 credits)

A critical examination of selected aspects of the relationship between art and its narratives.

NOTE A/See §200.3
NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 389 *Issues in Ethnocultural Art Histories* (3 credits)

An analysis of the concepts of ethnic and cultural identity in art and art history.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 390 *Art and the Museum* (3 credits)

A study of selected issues in museums and related art institutions.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 391 *Art and its Changing Contexts* (3 credits)

An investigation of art in its original context and of its changing meanings and uses through time.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 392 *Gender Issues in Art and Art History* (3 credits)

An examination of gender as a factor in making and interpreting art.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 396 *Art and Culture* (3 credits)

A critical examination of selected issues in art and its cultural context.

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 398 *Special Topics in Art and Society* (3 credits)

A detailed examination of a selected aspect of art in society. *NOTE C/See §200.3*

NOTE: It is strongly recommended that students follow at least six credits in Art History courses before enrolling in this course.

ARTH 400 *Advanced Seminar in Art Historical Method* (3 credits)

Prerequisite: Third-year* standing in the Major in Art History and written permission of the Department of Art History. A detailed examination of selected aspects of art methodologies.

NOTE A/See §200.3

**fewer than 33 credits remaining in degree program.*

ARTH 401 *Independent Studies in Art History* (3 credits)

Prerequisite: Third-year* standing in the Major in Art History, and written permission of the Department of Art History. Students are required to prepare a research paper under the supervision of a faculty member. *NOTE A/See §200.3*

**fewer than 33 credits remaining in degree program.*

ARTH 403 *Studies in Art History Practice* (3 credits)

Prerequisite: Third-year* standing in the Major in Art History, and written permission of the Department of Art History. A course in the practice of art history. Students are required to work on specific projects under the supervision of a faculty member.

**fewer than 33 credits remaining in degree program.*

ARTH 448 *Advanced Seminar in Art and Film* (3 credits)

Prerequisite: Enrolment in the Major in Art History and Film Studies; ARTH 348 or FMST 348; or written permission of the program director. A seminar designed to permit an in-depth course of study on some aspects of art and film history. *NOTE A/See §200.3*

NOTE: Students who have received credit for FMST 448 may not take this course for credit.

ARTH 450 *Advanced Seminar in the History of Art and Architecture* (3 credits)

Prerequisite: Third-year* standing in the Major in Art History, and written permission of the Department of Art History. A detailed examination of selected aspects of art and architectural history. *NOTE A/See §200.3*

**fewer than 33 credits remaining in degree program.*

ARTH 498 *Special Topics in the History of Art and Architecture* (3 credits)

Prerequisite: Eighteen credits in Art History, or written permission of the Department of Art History. A course for advanced students which provides for the study of more specialized areas of art. *NOTE A/See §200.3*

81.60 MEL HOPPENHEIM SCHOOL OF CINEMA

Faculty

Chair
PETER RIST, *Professor*

MARTIN LEFEBVRE, *University Research Chair*
ROSANNA MAULE
CILIA SAWADOGO

Professors
STEFAN ANASTASIU
MARIO FALSETTO
RICHARD KERR
JOHN LOCKE
MARIELLE NITOSLAWSKA
CATHERINE RUSSELL
THOMAS WAUGH
CAROLE ZUCKER

Assistant Professors
JEAN-CLAUDE BUSTROS
DANIEL CROSS
ROY CROSS
ERIN MANNING
HAIDEE WASSON

Associate Professors
GUYLAINE DIONNE
LOUISE LAMARRE

Sir George Williams Campus
Faubourg Tower, Room: FB 319
514-848-2424 ext. 4666

Department Objectives

The School investigates and develops cinema as a means of artistic expression. Its programs aim to graduate filmmakers, film animators, and scholars who have a rich appreciation of the artistic and cultural potential of the medium, and also of its history and traditions. Students are exposed to the possibilities of both digital and analog technologies, and the School's scholarly and artistic community celebrates its celluloid heritage and participates in the construction of the cinema of the future.

School programs, always evolving, embrace diversity, both in artistic formats and in the cultural values espoused through the study, creation, and dissemination of the cinema. The work of teachers, students, and artists engages with other artistic disciplines, and is grounded on academic rigour, teaching excellence, creative vision, and specific and high standards for the recruitment and admission of students, both undergraduate and graduate, who fit the School's mission. Its mission is inseparable from its commitment to the relevance and responsibility of its activities to the community, understood as being rooted here in Montreal and Quebec, throughout Canada, and internationally.

All programs offer core courses, elective courses, lectures by visiting specialists, independent studies, and professional internships, assuring continuous contact with working professionals in the arts community. Research and creative practice by faculty are also an essential part of the School's mission.

The BFA in Film Studies prepares graduates for professions as critics, arts administrators, educators, archivists, and curators within the regional, national, and international communities.

The BFA Film Animation and the BFA Film Production are studio programs that address practical and creative aspects of filmmaking, with the goal of providing a solid foundation for research and discovery to facilitate students' articulation of their unique artistic personality. Film Animation programs teach the full process of frame-by-frame filmmaking, its theory, and its practice. Film Production programs instill a thorough knowledge of the mechanics involved in producing motion pictures and help students develop personal perspectives on the aesthetics of creation. Students make their own films.

Programs

*Students are responsible for fulfilling their particular degree requirements; hence, the following sequences must be read in conjunction with \$81.20.
The superscript indicates credit value.*

66 BFA Specialization in Film Production
NOTE: It is strongly recommended that students in the Specialization in Film Production have, or acquire, a knowledge of French.

*12 FMST 211⁶, 212⁶
18 FMPR 231⁶, 332⁶, 432⁶
12 FMPR 336³, 338³, 339³, 340³

9 Chosen from FMPR 335³, 341³, 343³, 350³, 398³, 435³, 438³, 439³, 440³, 441³, 442³, 450³, 498³

9 Film Studies electives** (excluding FMST 200)

6 Cinema electives** **** or credits outside of Cinema selected in consultation with the head of Film Production

66 BFA Specialization in Film Studies

NOTE: It is strongly recommended that students in the Specialization in Film Studies have, or acquire, a knowledge of French.

- *24 FMST 211⁶, 212⁶, 321⁶, 322⁶
- 6 Chosen from FMST 214³, 215³, 418³, 419^{3***}
- 6 FMST 231⁶ or Cinema electives**** approved by the head of Film Studies
- 3 FMST 450³
- 21 Film Studies electives** (excluding FMST 200); FMST 341³, 441³
- 6 Film Studies seminar credits chosen in consultation with an advisor

54 BFA Major in Film Production

- *12 FMST 211⁶, 212⁶
- 21 FMST 231⁶, 332⁶, 338³, 339³, 340³
- 6 Film Studies elective(s)** (excluding FMST 200)
- 15 Cinema electives** ****

60 BFA Major in Film Animation

- 18 FMAN 202⁶, 224⁶, 254⁶
- 9 FMST 212⁶, 323³
- 12 FMAN 305⁶ and six credits of Film Animation electives; or FMAN 306⁶ and FMAN 354⁶ taken concurrently
- 6 FMAN 315³, 319³
- 9 FMAN 402⁹
- 3 Cinema electives****
- 3 Fine Arts electives (exclusive of Cinema)

NOTE: FMAN 402 may not be taken as a Cinema elective.

48 BFA Major in Film Studies

- *24 FMST 211⁶, 212⁶, 321⁶, 322⁶
- 18 Film Studies electives** (excluding FMST 200)
- 6 Cinema electives** ****

60 BFA Major in Art History and Film Studies

- 6 FMST 212⁶
- 6 Chosen from FMST 311³, 312³, 318³, 321⁶, 325³, 332³; VDEO 350⁶
- 6 Chosen from FMST 211⁶, 322⁶
- 3 Chosen from FMST 214³, 215³, 217³, 418³, 419³
- 3 Chosen from FMST 327³, 329³, 416³, 422³, 423³, 424³, 425³
- 3 Film Studies electives
- 6 ARTH 200⁶ to be taken as first six credits in studies in Art History
- 3 Chosen from ARTH 353³, 354³
- 6 Chosen from ARTH 366³, 367³, 368³
- 3 Chosen from ARTH 370³, 371³, 372³, 373³, 374³, 375³, 376³
- 3 Chosen from ARTH 379³, 381³, 388³, 400³
- 3 Chosen from ARTH 383³, 384³, 385³, 386³, 387³, 389³, 391³, 392³

- 3 Art History electives
- 3 FMST 348³/ARTH 348³
- 3 FMST 448³/ARTH 448³

This is a program for students who want to examine art and film from a variety of social, cultural, political, and critical perspectives.

30 Minor in Cinema

- 12 FMST 211⁶, 212⁶
- 18 Film Studies electives** (With the written permission of the School, introductory-level Film Animation or Film Production courses, selected in consultation with the School, may be substituted.)

This is a very limited enrolment program for students who want to have some access to Film Production and Film Animation courses.

30 Minor in Film Animation

- 12 FMAN 202⁶, 305⁶
- 6 FMAN 254⁶
- 9 FMST 212⁶, 323³
- 3 Cinema electives

24 Minor in Film Studies

- 12 Chosen from FMST 200⁶, 211⁶, 212⁶
- 12 Film Studies electives**

This Minor is primarily intended for students outside the Faculty of Fine Arts. Students in Communication Studies Department degree programs must have written permission of their Department to enter this program.

NOTES:

**FMST 211 and 212 should be taken as part of the first 30 credits.*

***In the Major and Specialization in Film Production, and the Major and Specialization in Film Studies, up to 12 credits chosen from the following courses in the Faculty of Arts and Science may be applied as Film Studies or Cinema electives for degree purposes: Communication Studies listed in §81.60.3; Littérature FLIT 382. In the Minor in Cinema and the Minor in Film Studies, up to six credits chosen from the following courses in the Faculty of Arts and Science may be applied as Film Studies elective(s) for degree purposes: Communication Studies listed in §81.60.3; Littérature FLIT 382.*

****Communication Studies 303 may be substituted for three credits in Film Studies and must be considered as Film Studies credits for degree purposes.*

*****In the Specialization in Film Production, the Specialization in Film Studies, and all Cinema Major programs, the following course may be applied as Cinema electives for degree purposes: VDEO 350.*

Minor in Interdisciplinary Studies in Sexuality

See §81.60.4

81.60.1
Admission to Cinema
Programs

The Mel Hoppenheim School of Cinema has distinct admission procedures in addition to the normal admission process of Concordia University. While applicants to Film Production and Film Animation programs are required to submit a *portfolio* and a *letter of intent*, an *interview* may also be required. For more information concerning these additional requirements and submission deadline dates, please visit the following website: <http://fofa.concordia.ca/portfolioaudition>.
NOTE: The Specialization in Film Production is offered at the third-year level. Upon attainment of third-year standing (33 or fewer credits remaining to be completed in the program), students in the Major in Film Production may apply for transfer to the Specialization in Film Production.

Courses

Film Studies:

NOTE: Courses may occasionally be offered in French.

FMST 200 Introduction to Film Studies
(6 credits)

A survey acquainting the student with the art of the film. The technical and critical terminology of film studies is discussed. Popular literature on film, such as reviews, is analysed and the more specialized film literature is introduced. Directors whose films are usually viewed include Bergman, Eisenstein, Fellini, Ford, Hitchcock, Kurosawa, Lubitsch, Keaton, and Welles. Weekly screenings. *NOTE A/See §200.3*

FMST 211* History of Film to 1959
(6 credits)

The evolution of the forms and themes of world cinema from its origin to 1959, in relation to its cultural, social, and political contexts. Special emphasis is placed on film historical methodology, focusing on approaches based on genre, auteur, national cinemas, social history, particular cinematic modes, or other frameworks. Weekly screenings. *NOTE A/See §200.3*

**Students in Cinema programs who require FMST 211 should complete the course as part of their first 30 credits.*

FMST 211* L'histoire du cinéma jusqu'à 1959 (6 crédits)

Ce cours couvre l'évolution des formes et des thématiques cinématographiques depuis leur début jusqu'à 1959 et les place dans leur contexte culturel, social et politique. L'accent est mis principalement sur la méthodologie de l'histoire du cinéma tout en privilégiant plusieurs angles d'approche: genre, cinéma d'auteur, cinéma national, histoire sociale, forme cinématographique particulière ou d'autres grilles. Visionnements hebdomadaires.

NOTE A/Voir §200.3

**Si ce cours figure au programme d'une personne inscrite en Cinéma, il devrait faire partie des 30 premiers crédits.*

FMST 212* Film Aesthetics (6 credits)
A study of the aesthetics of film. Topics include film criticism, theories about the fundamental elements of film, and comparisons between films which do not depend on their date of production. Problems of film description, interpretation, and evaluation are discussed. Weekly screenings. *NOTE A/See §200.3*

**Students in Cinema programs who require*

FMST 212 should complete the course as part of their first 30 credits.

FMST 214 English-Canadian Film
(3 credits)

A survey of English-Canadian film from the earliest surviving works to the present. Topics include fictional, documentary, animated, and experimental film, and the role of the National Film Board is discussed. Weekly screenings. *NOTE A/See §200.3*

FMST 215 Le cinéma québécois (3 crédits)

Tour d'horizon du cinéma québécois mettant l'accent sur des œuvres contemporaines. Les films sont examinés en fonction de leur valeur culturelle et politique. On y traite également de la structure de l'industrie du cinéma au Québec et du rôle joué, entre autres, par l'Office national du film. Visionnements hebdomadaires.

NOTE A/Voir §200.3

NOTE: Ce cours peut, à l'occasion, être offert en anglais. / Course may occasionally be taught in English.

FMST 217 First Nations and Film
(3 credits)

A survey of representation by and of aboriginal peoples in film and video. The emphasis is on the Americas, but important works from other continents are included. Films and videotapes, both mainstream and experimental, are discussed in the context of contemporary aesthetic issues, socio-cultural history, and post-colonial theory. Weekly screenings.

NOTE: Students who have received credit for FMST 398H may not take this course for credit.

FMST 311 Montage Aesthetic (3 credits)

Prerequisite: FMST 212. An intensive study of montage as an element of film style. Beginning with the work of D.W. Griffith, developments in film editing are followed through French Avant-Garde and Russian films of the 1920s to contemporary film. Weekly screenings.

FMST 312 Moving Camera Aesthetic
(3 credits)

Prerequisite: FMST 212. An intensive study of camera movement as an element of film style. Consideration is given to relations between long takes, deep-focus cinematography, and camera movement, as well as to the role of camera movement in creating the signification of film. Films by Murnau, Renoir, Welles, Ophuls, and Snow are included among those viewed and discussed. Weekly screenings.

FMST 313 *Film Comedy I* (3 credits)
Prerequisite: Second-year standing.* An introduction to film comedy in the silent and sound eras. The visual and verbal sources of comedy are analysed through the study of films ranging from Mack Sennett and Buster Keaton to Woody Allen and Jacques Tati. Weekly screenings.
**66 or fewer credits remaining in degree program.*

FMST 315 *Topics in Film Theory* (3 credits)
Prerequisite: Second-year standing.* This course closely examines a variety of theoretical writings concerned with aesthetic, social, and psychological aspects of the cinema. Students study the writing of classical theorists such as Eisenstein, Bazin, Balázs, and Kracauer, and/or contemporary thinkers such as Metz, Mulvey, Bordwell, and Jameson. Questions addressed in the course may include the nature of cinematic representation, film language, the relationship of film to other forms of cultural expression, and to racial and gender identity. The specific topics vary from year to year according to the specialization of the instructor. Screenings of films and film clips are included in the course.
NOTE: Students who have received credit for this topic under an FMST 398 number may not take this course for credit.
**66 or fewer credits remaining in degree program.*

FMST 318 *Experimental Film* (3 credits)
Prerequisite: Second-year standing.* An examination of experimental film emphasizing developments from the late forties to the present. The New American Cinema is considered in relation to other North American and European experimental cinemas, and examples of the historical antecedents of recent experimental films are viewed and discussed. Weekly screenings.
**66 or fewer credits remaining in degree program.*

FMST 321 *Studies in Film Directors* (6 credits)
Prerequisite: FMST 211 or second-year standing*. A concentrated study of the work of several major directors, principally narrative, from different periods in film history. Each director's work is examined in detail with representative films from distinct periods. The films are considered in terms of thematic and stylistic consistency and variation as well as biographical, social, and political factors. Weekly screenings.
NOTE A/See \$200.3
**66 or fewer credits remaining in degree program.*

FMST 322 *History of Film since 1959* (6 credits)
Prerequisite: FMST 211 or second-year standing*. A cross-cultural historical examination of selected aspects of world cinema since 1959, including trends in documentary and experimental film. The principal focus on European and American cinema is contextualized through reference to Canadian, Japanese, and Third World film. A range of perspectives is introduced, including genre and auteur study, formal analysis, and

feminist analysis. Films are studied in their political and cultural contexts. Weekly screenings.
NOTE A/See \$200.3
**66 or fewer credits remaining in degree program.*

FMST 323 *History of Animated Film* (3 credits)
Prerequisite: Enrolment in the Major in Film Animation or the Minor in Film Animation, or second-year standing*. A survey of animated film from the first decade of the twentieth century to the present. Styles of animation ranging from abstract experimental film of the 1920s, to the Disney Studio, to computer animation are viewed and discussed. The contribution of the National Film Board of Canada and particularly that of Norman McLaren is considered. Weekly screenings.
NOTE A/See \$200.3
**66 or fewer credits remaining in degree program.*

FMST 325 *Film Acting* (3 credits)
Prerequisite: Second-year standing.* A study of film acting centred on examining performances and individual scenes from films. Among the issues studied are the creation of star personas, casting against type, the influence of the script in the performance, the use of improvisation, the gesture system in silent film acting, ensemble acting, stylization, and exaggeration. Weekly screenings. *NOTE A/See \$200.3*
**66 or fewer credits remaining in degree program.*

FMST 327 *Third World Film* (3 credits)
Prerequisite: Second-year standing.* A survey of Third World films seen in relation to their cultural, political, and aesthetic environment. Films are selected from areas such as Latin America, the Caribbean, Africa, the Middle East, South and East Asia. Weekly screenings.
**66 or fewer credits remaining in degree program.*

FMST 328 *Non-fiction Film Since 1956* (3 credits)
Prerequisite: Second-year standing*. A cross-cultural survey of contemporary developments in the documentary film. The course begins with the precursors of *cinéma-direct* in North America and Europe during the fifties, and extends through the most recent applications of *cinéma-direct* in the emerging cinemas of the Third World. Emphasis is placed on both the artistic achievement and the theoretical, cultural, and political context of the non-fiction film during this period of technological and aesthetic transition. Weekly screenings.
**66 or fewer credits remaining in degree program.*

FMST 329 *Women and Film* (3 credits)
Prerequisite: FMST 211 or second-year standing*. An examination of films made by women, film criticism written by women, and the portrayal of women in films. These topics are considered within the context of film history and with an emphasis on their relation to ideas in contemporary feminist theory. Weekly screenings.
NOTE A/See \$200.3
**66 or fewer credits remaining in degree program.*

FMST 332 *Issues in Independent Cinema*
(3 credits)

Prerequisite: FMST 211 or second-year standing*. An intensive study of selected tendencies in cinema produced outside the mainstream of the film industry. Topics may include documentary, video art, experimental or narrative film, or particular convergences of these modes of film practice. Topics will vary according to the instructor's specialization. *NOTE A/See §200.3 *66 or fewer credits remaining in degree program.*
NOTE: Students who have received credit for FMST 331 may not take this course for credit without permission from the School.

FMST 335 *Aspects of National Cinemas*
(3 credits)

Prerequisite: Second-year standing.* An examination of films as reflections of national cultures. Films by a range of directors representing one or several national groupings such as Japan, Brazil, Eastern Europe, Great Britain, or contemporary West Germany are discussed in the context of their aesthetic, cultural, and political aspirations. Weekly screenings. *NOTE A/See §200.3 *66 or fewer credits remaining in degree program.*

FMST 337 *Topics in American Cinema*
(3 credits)

Prerequisite: Second-year standing.* A lecture or seminar course which provides an opportunity for the study of limited and more specialized aspects of U.S. cinema. Topics may include individual genres, directors, production studios, historical periods, or aspects of independent cinema. Topics vary from year to year according to the instructor's field of specialization.
**66 or fewer credits remaining in degree program.*

FMST 348 *Special Topics in Art and Film*
(3 credits)

Prerequisite: Enrolment in the Major in Art History and Film Studies; ARTH 200 and FMST 212; or written permission of the program director. A comparative examination of some aspects of film studies and art history. *NOTE C/See §200.3*
NOTE: Students who have received credit for ARTH 348 may not take this course for credit.

FMST 350 *Studies in Film Genres*
(3 credits)

Prerequisite: Second-year standing*; FMST 211 or 322. An intensive analysis of one or two film genres, which assumes previous experience in film-genre studies. The genre is discussed in terms of its structural characteristics and the ways in which it is a product of specific social situations. Weekly screenings.
**66 or fewer credits remaining in degree program.*

FMST 391 *Sexual Representation in Cinema* (3 credits)

Prerequisite: Second-year standing* or six credits in the Minor in Interdisciplinary Studies in Sexuality. An investigation of cinematic sexual imagery as art, communication and socio-cultural phenomenon.

Weekly screenings of films and videos, representing fiction, experimental and documentary genres, as well as different historical and cultural contexts, are related to theoretical readings, both classical and contemporary, by authors from Freud and the Surrealists to Foucault and recent feminist and queer theorists. Contemporary issues such as pornography, autobiography, and the HIV epidemic are confronted. Learning is interdisciplinary, interactive and group-oriented.
**66 or fewer credits remaining in degree program.*
NOTE: Students who have received credit for this topic under an FMST 498 number may not take this course for credit.

FMST 392 *Representation and Sexuality: Queer Cinema I* (3 credits)

An interdisciplinary, cross-cultural survey of queer cinema and video. Selected phases in the historical trajectory of lesbian and gay film are highlighted, both underground and mainstream, including studies of representative major artists from Jean Cocteau and Dorothy Arzner to Patricia Rozema and Derek Jarman. Problems in the depiction of sexual minorities are analysed, and a selection of the principal aesthetic, theoretical and socio-political issues raised by queer theory and cultural production is introduced.
NOTE A/See §200.3

FMST 393 *Representation and Sexuality: Queer Cinema II* (3 credits)

Prerequisite: FMST 392. An extension of FMST 392. An in-depth focus on selected historical, aesthetic, and theoretical issues, which vary from year to year according to the expertise of faculty. *NOTE A/See §200.3*

FMST 398 *Special Topics in Film Studies*
(3 credits)

Prerequisite: Written permission of the School of Cinema. A course which provides an opportunity for the study of limited and more specialized aspects of film studies. *NOTE C/See §200.3*

FMST 399 *Special Topics in Film Studies*
(6 credits)

Prerequisite: Written permission of the School of Cinema. A course which provides an opportunity for the study of specialized aspects of film studies outside the scope of existing courses.
NOTE C/See §200.3

FMST 409 *Seminar in Women and Film*
(3 credits)

Prerequisite: Written permission of the School of Cinema. An advanced course in the study of films made by women, as well as of the representation of women in films. The topics selected for study may vary from year to year and are considered within the context of film history, contemporary feminist philosophy, and feminist film theory. Students are expected to conduct independent research for class presentation.
NOTE A/See §200.3

FMST 414 Seminar in Film Directors
(3 credits)

Prerequisite: Eighteen credits in Film Studies and written permission of the School of Cinema. A seminar for advanced students which provides for more concentrated study of the work of specific film directors. The director or directors whose films are chosen for study varies from year to year according to the instructor's field of specialization. *NOTE C/See §200.3*

FMST 416 Seminar in Film History
(3 credits)

Prerequisite: Eighteen credits in Film Studies and written permission of the School of Cinema. A seminar for advanced students which provides for the study of limited and more specialized areas of film history. The areas chosen for study vary from year to year according to the instructor's field of specialization. *NOTE C/See §200.3*

FMST 418 Seminar in English-Canadian Film (3 credits)

Prerequisite: FMST 214 or COMS 316, and written permission of the School of Cinema. A seminar in which selected aspects of English-Canadian film are examined and discussed. The areas chosen for study vary from year to year according to the instructor's field of specialization.

FMST 419 Séminaire sur le cinéma québécois (3 crédits)

Préalable: FMST 215 ou COMS 316, ainsi que permission écrite de l'École de cinéma. Un séminaire dans lequel des aspects sélectifs du cinéma québécois sont analysés et discutés. Les sujets d'étude choisis varient d'année en année selon la spécialisation de l'instructeur.

FMST 421 Seminar in Film Script Analysis
(3 credits)

Prerequisite: Written permission of the School of Cinema. A study of the film script both as a basis for the construction of a film and as literature in its own right. Film scripts serving as illustrations of a variety of issues are used. Among these are point-of-view, voice-over, adaptation from novel and theatre to film, character development, multi-story narratives, and uses of dialogue. Several scripts by the same screenwriter are examined, as well as different drafts of the same script. The course requirement includes an oral presentation to be given in conjunction with one or more students in the class.

NOTE: Students who have received credit for FMST 324 may not take this course for credit.

FMST 422 Seminar in Film Theory and Criticism (3 credits)

Prerequisite: FMST 212 and written permission of the School of Cinema. Theories including those of Sergei Eisenstein and André Bazin are studied both as explanations of the effects of films and as foundations for film criticism. The relation of contemporary theoretical writings, such as those in film semiology, to film criticism is discussed. Weekly screenings.

FMST 423 Seminar in Comparative Stylistic and Formal Analysis
(3 credits)

Prerequisite: Written permission of the School of Cinema. An intensive course in the analysis of film style. Films are examined using an analytical projector in order to discover their formal and thematic structures. The contribution of cinematographers, editors, scriptwriters, directors, and performers to the development of a style are discussed. Weekly screenings.

FMST 424 Seminar in Film Narrative
(3 credits)

Prerequisite: Written permission of the School of Cinema. An examination of conventions of film narrative from a theoretical and historical point of view. Innovations in narrative structure are discussed and consideration is given to the origin, development, and transformation of narrative traditions in their cultural and aesthetic context.

FMST 425 Seminar in Contemporary Film Theory (3 credits)

Prerequisite: Written permission of the School of Cinema. A survey and analysis of major recent theoretical approaches to film. Among the topics discussed are auteurism, semiotics, textual analysis, ideological criticism, psychoanalysis, feminism, and neo-formalism. The seminar includes screenings, discussions of weekly readings, and oral presentations by the students. *NOTE A/See §200.3*

FMST 426 Professional Internship I
(3 credits)

Prerequisite: Second-year standing* in the Major in Film Studies or the Specialization in Film Studies; written permission of the School of Cinema. A Film Studies student who has been commissioned to work in such areas as film research, archival work, editing film publications, or writing film criticism, may seek permission to apply three credits towards the Film Studies degree program. A written proposal describing the project must be submitted prior to the work taking place in order to determine the appropriateness of the level and scope of the project. The School of Cinema must be satisfied that the work will be done under the joint supervision of a qualified professional and a full-time Cinema faculty member. *NOTE A/See §200.3*

**66 or fewer credits remaining in degree program.*

FMST 427 Professional Internship II
(3 credits)

Prerequisite: Second-year standing* in the Major in Film Studies or the Specialization in Film Studies; written permission of the School of Cinema. A student repeating FMST 426 registers for credit under FMST 427. *NOTE A/See §200.3*

**66 or fewer credits remaining in degree program.*

FMST 428 Independent Study I (3 credits)

Prerequisite: Written permission of the School of Cinema. A course of independent study in which the student may explore a specific area of film studies.

FMST 429 *Independent Studies II*
(3 credits)

Prerequisite: Written permission of the School of Cinema. A student repeating FMST 428 registers for credit under FMST 429 provided the subject matter is different.

FMST 448 *Advanced Seminar in Art and Film* (3 credits)

Prerequisite: Enrolment in the Major in Art History and Film Studies; ARTH 348 or FMST 348; or written permission of the program director. A seminar designed to permit an in-depth course of study on some aspects of art and film history.

NOTE A/See \$200.3

NOTE: Students who have received credit for ARTH 448 may not take this course for credit.

FMST 450 *Film Studies Specialization Seminar* (3 credits)

Prerequisite: Second-year standing* in the Specialization in Film Studies; written permission of the School of Cinema. This intensive seminar includes workshops in research methodology, in advanced study and career planning, and in the practice of criticism, publication, preservation, and programming. The relation of film studies to filmmaking practice, the role of changing technology, and the current cultural context of the discipline are discussed by visiting experts from both within the University and the community at large. The course brings together all students in the Specialization in Film Studies.

**66 or fewer credits remaining in degree program*

FMST 498 *Special Topics in Film Studies*
(3 credits)

Prerequisite: Written permission of the School of Cinema. A lecture or seminar course for advanced students which provides an opportunity for the study of limited and more specialized aspects of film studies.

NOTE A,C/See \$200.3

Film Animation:

NOTE: A student may register for only one course in which films are produced as a course requirement during each academic session. See \$81.60.2

FMAN 202 *Animation I* (6 credits)

Prerequisite: Enrolment in the Major in Film Animation or the Minor in Film Animation; or written permission of the School of Cinema, with either FMST 231 or six credits in a Studio Art course. A studio course introducing the study and practice of film animation. Students will be taught the fundamentals of motion analysis and frame-by-frame filmmaking, basic character animation, camera layouts, exposure sheets and character design. *NOTE A/See \$200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

FMAN 224 *Analytical Drawing* (6 credits)

Prerequisite: FMAN 202 previously or concurrently and enrolment in the Major in Film Animation; or enrolment in the Minor in Film Animation and written permission of the School of Cinema. An intensive studio course exploring the concepts and methods of analytical drawing for frame-by-frame filmmakers.

NOTE: Students who have received credit for FMAN 324 may not take this course for credit.

FMAN 254 *Technical Aspects of Animated Filmmaking* (6 credits)

Prerequisite: Enrolment in the Major in Film Animation or the Minor in Film Animation. An introduction to 2D frame-by-frame techniques and technical aspects of animated filmmaking.

NOTE: Students who have received credit for FMAN 214 may not take this course for credit.

FMAN 305 *Animation II* (6 credits)

Prerequisite: Second-year standing* in the Major in Film Animation or the Minor in Film Animation; FMAN 202, 224, 254. A continuation on a more advanced level of FMAN 202. Students study film-planning strategies and various frame-by-frame filmmaking techniques, both 2D digital and traditional, during the production of short animated films.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

NOTE: Students who have received credit for FMAN 302, 303, 304, or 313 may not take this course for credit.

**66 or fewer credits remaining in degree program.*

FMAN 306 *Animation II: 3D Digital*
(6 credits)

Prerequisite: Enrolment in the Major in Film Animation; FMAN 202, 224, 254; FMAN 354 concurrently; written permission of the School of Cinema. Students explore film-planning strategies and techniques for experimental approaches to 3D digital animation during the production of short animated films.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

NOTE: Students who have received credit for FMAN 302, 303, 304, 305, or 313 may not take this course for credit.

FMAN 315 *From Idea to Storyboard*
(3 credits)

Prerequisite: FMAN 305 previously or concurrently and written permission of the School of Cinema. Exploration of the visual development of ideas and scripts in a storyboard form. Students participate in creative and experimental exercises which include timing, planning the sound track, and filming the storyboards.

FMAN 319 *Character Animation* (3 credits)

Prerequisite: FMAN 202. An examination of the fundamentals of character animation, its theory,

techniques, and application to studio situations. Exercises in character design and dramatization are directed towards the students' particular interests and style. *NOTE A/See §200.3*
NOTE: Previous drawing experience is recommended.

FMAN 325 *Advanced Analytical Drawing*
(3 credits)

Prerequisite: FMAN 202, 224; written permission of the School of Cinema. A continuation on a more advanced level of FMAN 224.

FMAN 336 *Digital Post-Production for Animation* (3 credits)

Prerequisite: FMAN 305 previously or concurrently; written permission of the School of Cinema. An introduction to digital sound and image editing specifically designed for frame-by-frame filmmaking.

FMAN 352 *Traditional Stop-Motion Animation* (3 credits)

Prerequisite: Enrolment in the Major in Film Animation or the Minor in Film Animation; FMAN 202. An intensive hands-on seminar/workshop in the art and craft of animation. This course is designed to acquaint the student with photographic techniques, model, puppet, and set construction, materials, motion control, and lighting, as it applies to animation filmmaking. Recent developments and a study of international styles and techniques are included.

NOTE: Students who have received credit for FMAN 498H may not take this course for credit.

FMAN 353 *Principles of 3D Digital Film Animation* (3 credits)

Prerequisite: Enrolment in the Major in Film Animation; FMAN 202, 224, 254. An introduction to the principles and practices of the 3D digital approach to frame-by-frame filmmaking.

NOTE: Students who have received credit for FMAN 354 may not take this course for credit.

FMAN 354 *Digital Technical Aspects (3D)* (6 credits)

Prerequisite: Enrolment in the Major in Film Animation; FMAN 202, 224, 254; FMAN 306 concurrently; written permission of the School of Cinema. An intensive study of the 3D digital approach to frame-by-frame filmmaking.

NOTE: Students who have received credit for FMAN 353 may not take this course for credit.

FMAN 398 *Special Topics in Film Animation* (3 credits)

Prerequisite: Written permission of the School of Cinema. An opportunity for study of limited and more specialized aspects of film animation. *NOTE C/See §200.3*

NOTE: Students are required to bear the cost of materials.

FMAN 402 *Animation III* (9 credits)

Prerequisite: Enrolment in the Major in Film Animation; FMAN 224, and 305 or 306. A

continuation on a more advanced level of **Animation II**, where students produce major film animation projects in a medium of their choice. *NOTE A/See §200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

NOTE: Students who have received credit for FMAN 403 may not take this course for credit.

FMAN 446 *Professional Internship I* (3 credits)

Prerequisite: Second-year standing* in the Major in Film Animation; written permission of the School of Cinema. A Film Animation student who will be employed within the film industry during the same calendar year may seek permission to apply three credits towards the Film Animation degree program. A written proposal describing the project must be submitted prior to the work taking place in order to determine the appropriateness of the level and scope of the project. The School of Cinema must be satisfied that the work will be done under the joint supervision of a qualified professional and a full-time Cinema faculty member. *NOTE A/See §200.3.*

**66 or fewer credits remaining in degree program.*

FMAN 447 *Professional Internship II* (3 credits)

Prerequisite: Second-year standing* in the Major in Film Animation; written permission of the School of Cinema. A student repeating FMAN 446 registers for credit under FMAN 447. *NOTE A/See §200.3.*

**66 or fewer credits remaining in degree program.*

FMAN 448 *Independent Study I* (3 credits)

Prerequisite: Written permission of the School of Cinema. A course of independent study in which the student explores a specific area of film animation. *NOTE A,C/See §200.3*

FMAN 449 *Independent Study II* (3 credits)

Prerequisite: Written permission of the School of Cinema. A student repeating FMAN 448 registers for credit under FMAN 449 provided the subject matter is different. *NOTE A/See §200.3*

FMAN 498 *Special Topics in Film Animation* (3 credits)

Prerequisite: Written permission of the School of Cinema. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of film animation. *NOTE A,C/See §200.3*

Film Production:

NOTE: A student may register for only one course in which films are produced as a course requirement during each academic session. See §81.60.2.

FMPR 231 *Filmmaking I* (6 credits)

Prerequisite: Enrolment in a Cinema program; FMST 211 or 212 previously or concurrently;

written permission of the School of Cinema. A comprehensive course introducing students to the art of making films. This course stresses the individual student's creative efforts in filmmaking. Students are expected to master basic technique and theory. Students will also be using digital post-production systems to edit their works. The course requires attendance at mandatory workshops outside of class time. *NOTE A/See \$200.3*
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

FMPR 332 *Filmmaking II* (6 credits)

Prerequisite: Second-year standing* in the Major in Film Production; FMPR 231; FMPR 338 and 340 concurrently; written permission of the School of Cinema. An intermediate course in the theory, practice and technique of filmmaking. The course emphasizes idea development, creative process, methods of production, and production planning. Projects are made with a crew or individually, using film and/or digital technology, and digital post-production software. *NOTE A/See \$200.3*
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

NOTE: Students who have received credit for FMPR 331 may not take this course for credit.
**66 or fewer credits remaining in degree program.*

FMPR 335 *Acting and Directing Acting for the Screen I* (3 credits)

Prerequisite: Written permission of the School of Cinema; FMPR 332 previously or concurrently, or six credits in Theatre Performance. This studio course for Cinema and Theatre students explores directing and performing for film; exercises are recorded on video for analysis. Both performers and directors examine acting and directing acting for the camera through such topics as role preparation, character development, and performance continuity.
NOTE A/See \$200.3

FMPR 336 *Introduction to Film Producing* (3 credits)

Prerequisite: FMPR 231 or written permission of the School of Cinema. A comprehensive course introducing students to the art of production methods. This implies exposure to the creative and technical aspects of the total production experience, and includes both independent and industry strategies and methods for fundraising, preparation of the project, production budgeting and scheduling techniques, legal and monetary involvement, and post-production, distribution, and exhibition strategies.

NOTE: Students who have received credit for FMPR 334 may not take this course for credit.

FMPR 338 *Image I* (3 credits)

Prerequisite: Enrolment in the Major in Film Production; FMPR 231; FMPR 332 and 340 previously or concurrently; written permission of the School of Cinema. This is a comprehensive course about the equipment and technologies

available to the contemporary filmmaker. Traditional technical aspects of filmmaking remain fundamental in this course, while digital technologies are also explored. Students learn about different cameras, image formats, lenses, lighting and grip equipment, film stocks, electronic image support systems and laboratory procedures. Students must attend compulsory workshops in addition to classes.

NOTE: Students who have received credit for FMPR 342 may not take this course for credit.

FMPR 339 *Montage I* (3 credits)

Prerequisite: Enrolment in the Major in Film Production; FMPR 231; FMPR 332, 338 and 340 previously or concurrently; written permission of the School of Cinema. An introduction to methods, approaches and techniques of editing used by editors working in various genres of film — drama, documentary, experimental. Editing image, sound and preparation and supervision or re-recording are included. Analog and digital post-production platforms will be included. Attendance is required at mandatory laboratory sessions outside of class time.

NOTE A/See \$200.3

FMPR 340 *Sound I* (3 credits)

Prerequisite: Enrolment in the Major in Film Production; FMPR 231; FMPR 332 and 338 concurrently; written permission of the School of Cinema. An introductory course in the aesthetics of sound and music design, and the techniques of location and studio recording and post-production. Analog and digital platforms and technologies will be included. Weekly mandatory laboratory sessions.

NOTE: Students who have received credit for FMPR 242 may not take this course for credit.

FMPR 341 *Writing for Film I* (3 credits)

Prerequisite: FMPR 231 and written permission of the School of Cinema. An introduction to writing for film, with special emphasis on the relation of the script to filmmaking. Students are expected to submit work of their own for discussion, analysis, and possible production in film-making courses. Students will also use special computer software to write scripts.

NOTE A/See \$200.3

FMPR 343 *Production Design* (3 credits)

Prerequisite: Second-year standing* in Film Production, Film Animation, or Theatre Department programs and written permission of the School of Cinema. A practical examination of the visual aspects of film production. Topics in production design considered may include texture and visual styles, the collaborative process, project management, and the nature of constraints which apply to student and independent productions.

NOTE A/See \$200.3

**66 or fewer credits remaining in degree program.*

FMPR 350 *Ways of Seeing in Film Production* (3 credits)

Prerequisite: Enrolment in the Major in Film Pro-

duction or the Specialization in Film Production; written permission of the School of Cinema. A forum of ideas intended to increase the student's awareness of cinema as a visual medium. Aspects of our visual culture are presented and discussed: work by painters, photographers, sculptors, architects, and artists working with digital media. A relationship is made between the work of such artists and the work of the filmmaker. Students work on individual visual projects.

NOTE A/See \$200.3

NOTE: Students who have received credit for FMPR 498F may not take this course for credit.

FMPR 361 *Documentary Approaches in Film Production* (3 credits)

Prerequisite: Written permission of the School of Cinema. This course deals with aesthetic and conceptual issues surrounding the subject of documentary as a form. All issues in the production of a documentary film are treated, including budget, production, and post-production, and the changes brought by new technologies. This course will also analyse the shift in production away from film to digital technologies, in the field of the documentary.

NOTE: Students who have received credit for this topic under an FMPR 498 number may not take this course for credit.

FMPR 398 *Special Topics in Film Production* (3 credits)

Prerequisite: Written permission of the School of Cinema. A course which provides an opportunity for the study of specialized aspects of film production outside the scope of existing courses.

NOTE C/See \$200.3

FMPR 399 *Special Topics in Film Production* (6 credits)

Prerequisite: Written permission of the School of Cinema. A course which provides an opportunity for the study of specialized aspects of film production outside the scope of existing courses.

NOTE C/See \$200.3

FMPR 432 *Filmmaking III* (6 credits)

Prerequisite: Third-year standing* in the Specialization in Film Production or the Major in Film Production; FMPR 332, 338, 340; written permission of the School of Cinema. A progression of FMPR 332, with students working on more advanced filmmaking projects. Students will edit projects using digital technologies. The development of concepts introduced in FMPR 332 is continued. *NOTE A/See \$200.3*

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

NOTE: Students who have received credit for FMPR 431 may not take this course for credit.

**33 or fewer credits remaining in degree program.*

FMPR 435 *Acting and Directing Acting for the Screen II* (3 credits)

Prerequisite: FMPR 335 and written permission

of the School of Cinema. A continuation of FMPR 335 on a more advanced level.

FMPR 438 *Image II* (3 credits)

Prerequisite: Enrolment in the Specialization in Film Production or the Major in Film Production; FMPR 332, 338, 340; FMPR 339 previously or concurrently; written permission of the School of Cinema. Building on the technical knowledge acquired in Image I, this course focuses on the art of cinematography. Advanced lighting and camera techniques are treated, emphasizing their aesthetic function. Students in this course will have mastered basic technical concerns, and are expected to develop interesting visual approaches for films made in Filmmaking III. Exercises are shot on film, digital and 35mm stills. Film excerpts and rushes are analysed from a cinematographer's point of view.

FMPR 439 *Montage II* (3 credits)

Prerequisite: FMPR 339 and written permission of the School of Cinema. A continuation of FMPR 339. This course is taught utilizing digital post-production editing systems.

FMPR 440 *Sound II* (3 credits)

Prerequisite: Enrolment in the Specialization in Film Production or the Major in Film Production; FMPR 338, 340; written permission of the School of Cinema. The central focus of the course is the creative designing of the soundtrack. The course emphasizes the interaction between sound and image in film and includes both individual and collective sound projects. This course is also taught on digital sound post-production platforms, and stresses the use of digital editing systems.

FMPR 441 *Writing for Film II* (3 credits)

Prerequisite: FMPR 341 and written permission of the School of Cinema. A continuation of FMPR 341 on a more advanced level. Students will also use special computer software to write scripts.

FMPR 442 *Optical Printer Practice* (3 credits)

Prerequisite: FMPR 338 previously or concurrently, or FMAN 254; written permission of the School of Cinema. A film production course assisting students in the understanding and application of advanced optical printer technology and aesthetics. *NOTE A/See \$200.3*

FMPR 445 *Professional Internship* (6 credits)

Prerequisite: Second-year standing* in the Specialization in Film Production or the Major in Cinema, Option A, Film Production; and written permission of the School of Cinema. A Film Production student who will be employed within the film industry during the same calendar year may seek permission to apply six credits towards the Film Production degree program. A written proposal describing the project must be submitted prior to the work taking place in order to determine the appropriateness of the level and

scope of the project. The School of Cinema must be satisfied that the work will be done under the joint supervision of a qualified professional and a full-time Cinema faculty member.

NOTE A/See §200.3

**66 or fewer credits remaining in degree program.*

FMPR 446 Professional Internship I
(3 credits)

Prerequisite: Enrolment in the Major in Cinema, Option A, Film Production or in the Specialization in Film Production; and written permission of the School of Cinema. A Film Production student who will be employed within the film industry during the same calendar year may seek permission to apply three credits towards the Film Production degree program. A written proposal describing the project must be submitted prior to the work taking place in order to determine the appropriateness of the level and scope of the project. The School of Cinema must be satisfied that the work will be done under the joint supervision of a qualified professional and a full-time Cinema faculty member. *NOTE A/See §200.3*

FMPR 447 Professional Internship II
(3 credits)

Prerequisite: Written permission of the School of Cinema. A student repeating FMPR 446 for credit registers under FMPR 447. *NOTE A/See §200.3*

FMPR 448 Independent Study I (3 credits)

Prerequisite: Written permission of the School of Cinema. A course of independent study in which the student explores a specific area of film production. *NOTE A,C/See §200.3*

FMPR 449 Independent Study II (3 credits)

Prerequisite: Written permission of the School of Cinema. A student repeating FMPR 448 registers for credit under FMPR 449 provided the subject matter is different. *NOTE A/See §200.3*

FMPR 450 Film Production Specialization Seminar (3 credits)

Prerequisite: Enrolment in the Specialization in

Film Production and written permission of the School of Cinema. A seminar offering in-depth, practical approaches to artistic and technical situations. This course brings together all students in the Specialization in Film Production.

FMPR 451 Advanced Project Internship I
(3 credits)

Prerequisite: Enrolment in the Specialization in Film Production or the Major in Film Production; FMPR 332 previously or concurrently; written permission of the School of Cinema. A Film Production student who contributes in a key position to a graduate project in the Film Production MFA program may apply for credits on the understanding that the application take place prior to the production and is authorized by the faculty members responsible for both programs.

FMPR 452 Advanced Project Internship II
(3 credits)

Prerequisite: FMPR 451 and written permission of the School of Cinema. A student repeating FMPR 451 for credit registers under FMPR 452.

FMPR 458 Independent Study (6 credits)

Prerequisite: Written permission of the School of Cinema. A course of independent study in which the student explores a specific area of Film Production.

FMPR 498 Special Topics in Film Production (3 credits)

Prerequisite: Written permission of the School of Cinema. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of film production. *NOTE A,C/See §200.3*

FMPR 499 Special Topics in Film Production (6 credits)

Prerequisite: Written permission of the School of Cinema. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of film production. *NOTE A,C/See §200.3*

81.60.2
Filmmaking

Courses in which films are produced as a course requirement are:

FMAN 202⁶, 305⁶, 402⁹
FMPR 231⁶, 332⁶, 432⁶

81.60.3
Communication
Studies Film Courses

NOTE: For course descriptions see §31.070.

Students enrolled in the Film Studies or Film Production Major or Specialization programs may select up to 12 credits from the Communication Studies courses listed below. Students enrolled in the Minor in Cinema and the Minor in Film Studies may select up to six credits from the Communication Studies courses listed below.

The credits earned may be applied as Film Studies and/or Cinema electives for degree purposes.

COMS 301 Selected Topics in National Cinemas (3 credits)
COMS 304 Selected Topics in Film Studies (3 credits)
COMS 416 Film Criticism (3 credits)
COMS 434 Advanced Topics in Film Studies (3 credits)

81.60.4 Interdisciplinary Studies in Sexuality	81.60.4 INTERDISCIPLINARY STUDIES IN SEXUALITY	
	<p><i>Coordinator</i> FRANCES SHAVER, Associate Professor, Sociology and Anthropology</p> <p><i>Coordinating Committee</i> RACHEL BERGER, Assistant Professor, History DONALD BOISVERT, Assistant Professor, Religion GILBERT ÉMOND, Assistant Professor, Applied Human Sciences EVERGON, Assistant Professor, Studio Arts BRIAN FOSS, Associate Professor, Art History MARCIE FRANK, Associate Professor, English BRIAN GABRIAL, Assistant Professor, Journalism VINCE GRAZIANO, Associate Librarian, Concordia Libraries ROSS HIGGINS, Instructor, Sociology and</p>	<p><i>Anthropology</i> WILSON JACOB, Assistant Professor, History EDWARD LITTLE, Associate Professor, Theatre SHANNON MCSHEFFREY, Associate Professor, History CHANTAL NADEAU, Associate Professor, Communication Studies VIVIANE NAMASTE, Associate Professor, Simone de Beauvoir Institute KAT O'BRIEN, Associate Professor, Design Art JAMES G. PFAUS, Associate Professor, Psychology HILARY ROSE, Assistant Professor, Applied Human Sciences THOMAS WAUGH, Professor, Mel Hoppenheim School of Cinema SANDRA WEBER, Professor, Education</p>
Program	<p>Students are responsible for fulfilling their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20. The superscript indicates credit value.</p> <p>27 Minor in Interdisciplinary Studies in Sexuality</p> <p>12 Chosen from FFAR 290/INTE 270⁶; FASS 291/INTE 275³; FASS 392/INTE 392³; SOCI 375/ANTH 375^{3*}; FMST 392³</p> <p>9 Elective credits on sexuality and sexual orientation chosen in consultation with the program coordinator from periodic topics courses and other suitable courses identified in a given year, and from the following regular courses: AHSC 253³; ENGL 393³; FMST 391^{3*}; RELI 380³; WSDB 383³.</p> <p>6 Chosen each year from courses in gender and women's studies in consultation with the program coordinator from a list of available offerings within departments of the Faculties of Fine Arts and Arts and Science. *Prerequisites waived for students having completed six credits in the Minor in Interdisciplinary Studies in Sexuality.</p>	
Courses	<p>FASS:</p> <p>FASS 291 <i>(also listed as INTE 275)</i> Introduction to Sexuality Research (3 credits)</p> <p>An interdisciplinary survey of approaches to research in sexuality within the humanities, the arts, and the social sciences. Basic concepts of sexual identity, values, conduct, representation, and politics are addressed through such topical concerns as pornography and censorship, and through the perennial dialogue between biological and socio-cultural models of sexuality. The relation between theories and research methods is discussed in the context of classical and current research and creative activity. The syllabus reflects the varying specializations of the instructors from year to year. NOTE: Students who have received credit for INTE 275, INTE 391 or FASS 391 may not take this course for credit.</p>	<p>FASS 392 <i>(also listed as INTE 392)</i> Queer Theory (3 credits)</p> <p>Prerequisite: 30 credits. An interdisciplinary survey of the basic post-1970 theories of sexual minorities and diversity, in their historical and cultural contexts. Authors from Michel Foucault to Eve Kosofsky Sedgwick are introduced, as well as the work of artists and performers from Derek Jarman to k.d. lang. The syllabus reflects the varying specializations of the instructors from year to year. NOTE: Students who have received credit for INTE 392 may not take this course for credit.</p>

81.70 CONTEMPORARY DANCE

Faculty	<p>Chair MICHAEL MONTANARO, Associate Professor</p> <p>Associate Professor SILVY PANET-RAYMOND</p>
Location	<p>Loyola Campus TJ Building, Room: TJ 307 514-848-2424 ext. 4740</p>
Department Objectives	<p>The Contemporary Dance Department offers comprehensive training which combines formal dance training with extensive studies in choreography. Encouraging students to discover and develop their individual creative capacities as both dancers and choreographers is the mission of the Dance program.</p> <p>Performance is a crucial element in this development, and students at Concordia gain valuable experience performing or staging their own choreographies.</p>
Program	<p><i>Students are responsible for satisfying their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20.</i> <i>The superscript indicates credit value.</i></p> <p>60 BFA Major in Contemporary Dance 18 DANC 201⁶, 301⁶, 401⁶ 12 Chosen from DANC 205⁶, 305⁶, 405⁶ 12 DANC 320⁶, 420⁶ 3 DANC 211³ 6 DANC 230⁶ 3 DANC 350³ 6 Studio Art electives or Department of Theatre elective, selected in consultation with an advisor.</p>
81.70.1 Admission to Contemporary Dance	<p>There is a distinct procedure for admission to the Major in Contemporary Dance in addition to the normal admission process of Concordia University. All applicants to Contemporary Dance are required to attend an <i>audition</i> as part of the admission process.</p> <p>Applicants should preferably contact the Department of Contemporary Dance before March 1 to arrange their audition and for detailed information regarding admission to Dance.</p>
Courses	<div> <p>DANC 201 Creative Process I (6 credits) Prerequisite: Appropriate technique course (DANC 205 [210], 305 [310], or 405 [410], as determined by the Department) concurrently; enrolment in the Major in Contemporary Dance, or written permission of the Department. Introduction to the creative process in dance. Students learn to explore, observe, and structure ideas and movements through improvisations and specific exercises which cover such fundamentals as kinetics, rhythm and dynamics, spatial organization, perceptual skills, integration of acoustic, visual and verbal elements, and the use of technology as a creative tool. In addition to the regular studio hours, students must attend two hours of laboratory each week. <i>NOTE: Students who have received credit for DANC 200 may not take this course for credit.</i></p> <p>DANC 205 Technique I (6 credits) Prerequisite: Enrolment in the Major in Contemporary Dance, or written permission</p> </div> <div> <p>of the Department. Emphasis is placed on the proper alignment and placement of the body in stillness and in motion. Integration and execution of movement fundamentals and sequences are taught as a preparation for dance. <i>NOTE: Students who have received credit for DANC 210 may not take this course for credit.</i></p> <p>DANC 211 Dance Traditions (3 credits) A survey of the history of dance, including relations between modernism, post-modernism, and beyond. Support material may include slides and videos, and bibliographies of specific topics. The course is also designed to provide opportunities for personal and critical reflection and stimulation for contemplating ideas related to dance.</p> <p>DANC 230 Sound and Silence for the Dancer (6 credits) Prerequisite: Enrolment in the Major in Contemporary Dance, or written permission of the</p> </div>

Department of Contemporary Dance. The basics of music theory through guided analytical text using singing, single line score reading and moving, including the study of rhythm, melody, harmony, tempi, dynamics, tone colour, and musical forms with emphasis on the fundamental understanding of rhythm, melody, and harmony physically and mentally.

DANC 240* Principles of Contemporary Dance (6 credits)

Prerequisite: Written permission of the Department of Contemporary Dance. A survey of technical skills, improvisation, and dance composition. Studio: four hours per week. Laboratory: two hours per week.

**Students enrolled in the Major in Contemporary Dance may not take this course for credit towards their degree program.*

DANC 261 Summer Workshop in Dance I (3 credits)

Prerequisite: Written permission of the Department of Contemporary Dance. Sequences of studio sessions which may include body movement, improvisation, performance technique, and choreography. Studio: four hours per week. Laboratory: two hours per week.

NOTE: Students enrolled in the Major in Contemporary Dance may not take this course for credit towards their program requirements.

DANC 262 Summer Workshop in Dance II (3 credits)

Prerequisite: Written permission of the Department of Contemporary Dance. A continuation of DANC 261. Studio: four hours per week. Laboratory: two hours per week.

NOTE: Students enrolled in the Major in Contemporary Dance may not take this course for credit towards their program requirements.

DANC 301 Creative Process II (6 credits)

Prerequisite: Appropriate technique course (DANC 205 [210], 305 [310], or 405 [410], as determined by the Department) and DANC 320 concurrently; DANC 200 or 201; and enrolment in the Major in Contemporary Dance, or written permission of the Department. A continuation of DANC 200. Students further develop the practical and theoretical aspects of the creative process in dance and the elaboration of an individualized kinetic language. Methods of research and their application to concepts, themes, collaborations, projects, and the use of technology are evolved in studio and laboratories. In addition to the regular studio hours, students must attend two hours of laboratory each week.

NOTE: Students who have received credit for DANC 300 may not take this course for credit.

DANC 305 Technique II (6 credits)

Prerequisite: Enrolment in the Major in Contemporary Dance, or written permission of the Department. Emphasis is placed on the technical development of suppleness, strength,

coordination, rhythm, and kinetic fundamentals. Loco-motor patterns, spatial relations, and phrasing are formulated into movement sequences to prepare the students for dance.

NOTE: Students who have received credit for DANC 310 may not take this course for credit.

DANC 320 Choreography I (6 credits)

Prerequisite: Appropriate technique course (DANC 205 [210], 305 [310], or 405 [410], as determined by the Department) and DANC 300 or 301 concurrently; enrolment in the Major in Contemporary Dance, or written permission of the Department. Choreography is the art of rendering a concept into the physical design of dance through movement and forms of notation. This course develops personal creativity and broadens the student's physical and expressive potential into public performances. By organizing movement, space, and time into dances, students follow through the stages of originating ideas, developing themes, and rehearsing and performing choreographic creations. The course also explores the role that technology plays within both the choreographic and production processes. Practical exercises provide students with a working knowledge in the use of video, sound manipulation, and stage lighting.

DANC 330 Principles of Anatomy and Body Movement (6 credits)

Prerequisite: DANC 205 (210), and written permission of the Department of Contemporary Dance. A workshop of movement fundamentals based on the practical understanding of anatomy and dance technique. Studio: six hours per week.

DANC 350 Practical Anatomy for the Moving Body (3 credits)

An introduction to human anatomy in relation to movement and dance. The study of skeletal structure and the function of muscles and joints for proper alignment.

DANC 398 Special Topics in Dance (3 credits)

Prerequisite: Written permission of the Department of Contemporary Dance. Topics vary from year to year, taking into account the special aptitudes of instructors and students. Studio: six hours.

NOTE C/See §200.3

DANC 401 Creative Process III (6 credits)

Prerequisite: Appropriate technique class (DANC 205 [210], 305 [310], or 405 [410], as determined by the Department) and DANC 420 concurrently; enrolment in the Major in Contemporary Dance, or written permission of the Department. A continuation of DANC 301 (300). This course enables students to advance their creative process and practice as movement artists through kinetic exploration, improvisation, performance coaching, extended studio projects, and lab reports. Discussion of current artistic issues and cultural manifestations help students situate their own research within a diversity of contexts. Build-

ing on initial research carried out in DANC 301 (300), further exploration is conducted into the use of technology within the creative process. In addition to the regular studio hours, students must attend two hours of laboratory each week. *NOTE: Students who have received credit for DANC 400 may not take this course for credit.*

DANC 405 *Technique III* (6 credits)
Prerequisite: Enrolment in the Major in Contemporary Dance, or written permission of the Department. Emphasis is placed on refining and consolidating the student's practical understanding of kinetics in relation to placement, locomotion, movement patterns, dynamics, and phrasing. Students refine their perceptual and memory skills, and learn to integrate more complex movement notions to support interpretation in dance. *NOTE: Students who have received credit for DANC 410 may not take this course for credit.*

DANC 420 *Choreography II* (6 credits)
Prerequisite: Appropriate technique class (DANC 205 [210], 305 [310], or 405 [410], as determined by the Department) and DANC 401 (400) or 405 (410) concurrently; enrolment in the Major in Contemporary Dance, or written permission of the Department. Building on initial research carried out in DANC 320, further exploration is conducted into the use of technology within the choreographic process as well as an examination of the role that it plays in all aspects of production. This course expands on various approaches to choreography through movement research, discussion and theory, extended studio assignments, rehearsal management, and production. Students also examine the role of the choreographer in social, political, and artistic contexts. Students are expected to produce work for public performance.

DANC 441 *Independent Study I* (3 credits)
Prerequisite: Written permission of the Department. Students who have completed advanced choreography courses or the equivalent have the opportunity of carrying out a project of independent study. Subject matter must deal with specific aspects of contemporary dance. Tutorials with the project advisor are mandatory. *NOTE A/See §200.3*

DANC 442 *Independent Study II* (3 credits)
Prerequisite: Written permission of the Department of Contemporary Dance. A student repeating DANC 441 registers for credit under DANC 442. *NOTE A/See §200.3*

DANC 499 *Topics in Dance* (6 credits)
Prerequisite: Written permission of the Department of Contemporary Dance. Advanced choreography where movement shares equal emphasis with all other arts developed into multi-media theatre. Studio: four hours per week. Practice laboratory: two hours per week. Rehearsal: four hours per week.

CREATIVE ARTS THERAPIES

Faculty

Chair
STEPHEN SNOW, *Associate Professor*

Assistant Professor
SUZANNE LISTER

Associate Professors
LOUISE LACROIX
JOSÉE LECLERC
YEHUDIT SILVERMAN
DENISE TANGUAY

Adjunct Professors
IRENE GERIQUE
LELAND PETERSON

Location

Sir George Williams Campus
Visual Arts Building, Room: VA 264
514-848-2424 ext. 4790
<http://creativeartstherapies.concordia.ca>

Department Objectives

The Department of Creative Arts Therapies offers a two-year program of study leading to the Master/Magisteriate in Arts in Creative Arts Therapies. Two Options are offered within this program: Art Therapy and Drama Therapy. Students complete 60 credits of course work and 800 hours of internship. Although students focus on one therapeutic modality (Option) in their training, the program fosters a working understanding of allied disciplines in therapy, and is designed to offer intensive preparation for a high level of professional competence.

Two introductory courses, which are prerequisites for admission to each respective Option, are offered at the undergraduate level. These courses are designed to provide prospective students with a foundation in either Art Therapy or Drama Therapy.

Courses

Art Therapy:

This course is intended as partial preparation for graduate studies in the field of art therapy.

ATRP 301 ***An Introduction to Art Therapy***
(3 credits)

Prerequisite: 30 credits; PSYC 200 (or equivalent); six credits in Studio Arts. Lectures, readings, and workshops which examine both the history and basic concepts of art therapy and their application.

Drama Therapy:

This course is intended as partial preparation for graduate studies in the field of drama therapy.

DTHY 301 *An Introduction to Drama Therapy* (3 credits)

Prerequisite: Second-year standing* and permission of the Department of Creative Arts Therapies. This course provides an introduction to the subject and profession of drama therapy including its history, key processes, and a selection of current approaches. It includes both didactic and experiential components providing students with a broad understanding of its applications.

**66 or fewer credits remaining in degree program.*

NOTE: Students who have received credit for TDEV 421, DFHD 421, or DINE 420 may not take this course for credit.

81.90 DESIGN AND COMPUTATION ARTS

Faculty	Chair MARTIN RACINE, Associate Professor	KAT O'BRIEN RHONA RICHMAN KENNEALLY
	Canada Research Chair SHA XIN WEI	Assistant Professors JENNIFER DE FREITAS CHRISTOPHER SALTER
	Associate Professors JOANNA BERZOWSKA P.K. LANGSHAW JASON LEWIS	Adjunct Professor LYDIA SHARMAN
Location	Sir George Williams Campus Engineering, Computer Science and Visual Arts Complex, Room: EV 6.761 514-848-2424 ext. 4626	
Department Objectives	<p>The Department offers programs that examine the broad vision or culture of design within contemporary society.</p> <p>The Design Major is located primarily within the disciplines of image, object-making, and screen-based media in design practice with an emphasis on the study of material culture. Digital technologies are integrated into the creative process to serve as strategies and tools for enhanced communication, application, representation, and dissemination.</p> <p>The Computation Arts programs are concentrated within the digital and virtual environments where computer technology is embedded in all stages of the creative process and production. The Internet as a system for communication in information and networked societies serves as the intersection that strongly links the disciplines of Design and Computation Arts. Students are encouraged to take courses across Design and Computation Arts.</p>	
81.90.1	DESIGN	
Program Objective	<p>The Design Major offers a program of study that examines the environments of image, object, and Web design as persuasive forms of intervention and mediation in contemporary society. Emphasis is put on material culture studies that have a strong impact on design history and theory, the world of the everyday, and the primacy of the artefact as a reflection of the cultural landscape.</p> <p>Students develop a background in the three streams and then specialize according to their interests and abilities. In both the theoretical and practical considerations of the program, the curriculum integrates creative experimentation in social design with ecologically oriented and collaborative productions.</p>	
Program	<p><i>Students are responsible for fulfilling their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20.</i></p> <p><i>The superscript indicates credit value.</i></p> <p>72 BFA Major in Design</p> <p>6 DART 261³, 262³</p> <p>3 DART 280³</p> <p>3 DART 380³ or 381³</p> <p>18 DART 291³, 292³, 391³, 392³, 491³, 492³</p> <p>3 Chosen from DART 221³, 223³, 225³, 229³, 298³</p> <p>3 Chosen from DART 331³, 335³, 339³, 398³</p> <p>12 Chosen from DART 400-level courses</p> <p>6 Chosen from Art History or Art Theory electives</p> <p>18 Computation Arts, or other Fine Arts electives</p>	
Design Co-operative Program	<p>The Design co-operative program is available to selected students who are enrolled in the BFA program and are majoring in Design. The academic content of the co-op program is identical to the regular program with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. Please see §24 for specific details concerning the curriculum.</p>	

<i>Admission to the Major in Design</i>	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Design Art. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
81.90.2	COMPUTATION ARTS
<i>Program Objective</i>	<p>The Computation Arts programs facilitate a hybrid learning environment for the integration of fine arts and computer science. The core curriculum incorporates conceptual and technical aspects of dynamic imagery, sound, and virtual dimension. Teaching emphasizes non-traditional applications of digital technologies while also developing awareness of the cultural and political implications of new technologies in networked and information societies. Areas of interest in the program include interaction design, physical computing, immersive environments, and experimental sound.</p>
<i>Programs</i>	<p><i>Students are responsible for fulfilling their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20.</i></p> <p><i>The superscript indicates credit value.</i></p> <p>60 BFA Specialization in Computation Arts</p> <p>9 CART 251³, 252³, 253³</p> <p>6 CART 254³, 255³</p> <p>3 CART 351³</p> <p>6-9 Chosen from CART 261³, 262³, 352³, 354³, 355³, 356³, 357³, 358³, 360³, 363³, 398³</p> <p>6 CART 451³, 452³</p> <p>6-12 Chosen from CART 453³, 454³, 455³, 456³, 457³, 458³, 460³, 498³</p> <p>9-12 Chosen from CART, DART, EAMT, IMCA, or other Fine Arts electives</p> <p>6 Chosen from ARTH or other Fine Arts theory electives</p> <p>45 BFA Major in Computation Arts (to be combined with Computer Applications Option)</p> <p>6 FFAR 250⁶</p> <p>9 CART 251³, 252³, 254³</p> <p>3 CART 351³</p> <p>3-6 Chosen from CART 261³, 262³, 352³, 354³, 355³, 356³, 357³, 358³, 360³, 363³, 398³</p> <p>6 CART 451³, 452³</p> <p>3-6 Chosen from CART 453³, 454³, 455³, 456³, 457³, 458³, 460³, 498³</p> <p>6 Chosen from DART, EAMT, IMCA, or other Fine Arts electives in consultation with an advisor</p> <p>3-6 Chosen from CART 255³, ARTH or other Fine Arts theory electives</p> <p>24 Minor in Computation Arts</p> <p>9 CART 251³, 252³, 253³</p> <p>3 CART 351³</p> <p>6 Chosen from CART 261³, 262³, 352³, 354³, 355³, 356³, 357³, 358³, 360³, 363³, 398³</p> <p>6 Chosen from CART, DART, EAMT, IMCA, or other Fine Arts electives in consultation with an advisor</p>
<i>Computation Arts Co-operative Program</i>	<p>The Computation Arts co-operative program is available to selected students who are enrolled in the BFA program, Major or Specialization in Computation Arts. The academic content of the co-op program is identical to the regular program with some specific recommendations for courses designed to improve and enhance the student's quality of work performance. Please see §24 for specific details concerning the curriculum.</p>
<i>Admission to the Specialization, Major*, and Minor** in Computation Arts</i>	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Specialization or Major in Computation Arts. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p> <p>*The Major in Computation Arts (45 credits) must be taken in combination with the Option in Computer Applications (45 credits) offered by the Department of Computer Science and Software Engineering. Candidates applying for the Major in Computation Arts are required to complete the 10.12 profile: Mathematics 103 or 201-NYA and 203 or 201-NYB, and 105 or 201-NYC. Candidates lacking Cegep profile 10.12, but with a suitable background, may also be considered for this program. Applicants to</p>

the Specialization or Minor in Computation Arts require no background in mathematics.

**The Minor is available to a limited number of high-ranking students. Applicants must submit a full portfolio by the March 1 deadline and may contact the Department of Design and Computation Arts for specific application procedures.

Courses

Computation Arts:

CART 251 *Web In Sites* (3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. The Web is explored as a medium of expression for digital media concepts. A historical overview related to interdisciplinary research on technological developments in art, science, and industry is the theoretical reference base for the technical and conceptual challenges of working online.

NOTE: Students who have received credit for DFAR 251 may not take this course for credit.

CART 252 *Image/Sound/Dimension* (3 credits)

Prerequisite: CART 251; enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. In this introductory lab, students pursue individual and collaborative projects in the three concentrations of digital media and their technical skill sets. Web and screen-based imaging, auditory works, 3D modelling and animation are produced in the context of digital applications and contemporary discourse in the fine arts.

NOTE: Students who have received credit for DFAR 252 may not take this course for credit.

CART 253 *The Languages of Programming* (3 credits)

Prerequisite: CART 251 or written permission of the Department. The fundamentals of computer programming are introduced through exercises and studio projects. Students are exposed to scripting and programming in order to understand how they may be used to support creative digital work.

NOTE: Students who have received credit for DFAR 253 or 353 may not take this course for credit.

CART 254 *Design Fundamentals* (3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. Key themes of visual communication are explored in the context of computation arts. This studio course considers colour and colour spaces, design elements (line, pattern, shape, texture), interpretation of space (surface, perspective, dimension, repetition, randomness), and conceptualization.

CART 255 *New Media Theory* (3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. A course based on lectures and discussion that surveys and examines key themes of design and art practice in the context of emerging technologies and cross-disciplinary inquiry.

CART 261 *Digital Dimensions I* (3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. In this studio course, students are introduced to the language, principles, and practices of 3D digital animation. Students are exposed to a wide range of traditional film animation techniques and learn the technical skills and conceptual strategies for 3D digital production.

NOTE: Students who have received credit for this topic under an FMAN 398 number may not take this course for credit.

CART 262 *Digital Dimensions II* (3 credits)

Prerequisite: CART 261; enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. This intermediate studio furthers conceptual and technical skills related to 3D digital animation. Through film analysis, readings, and lectures, students study film animation aesthetics, contemporary film practice, and advanced 3D animation techniques.

NOTE: Students who have received credit for this topic under an FMAN 398 number may not take this course for credit.

CART 351 *Networks and Navigation* (3 credits)

Prerequisite: CART 251, 252; 24 credits in the Specialization or Major in Computation Arts; or written permission of the Department. In this studio course, students develop interactive projects that take advantage of networked data, redefine online communities, and experiment with new communication structures. The perceptual and aesthetic aspects of digital media are addressed in relation to the technical skill sets required for navigating and understanding the possibilities and limits of networked environments.

NOTE: Students who have received credit for DFAR 350 or 351 may not take this course for credit.

CART 352 *Synthetic Sound and Image* (3 credits)

Prerequisite: EAMT 203 previously or concurrently; 24 credits in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. Synthesis, synaesthesia and synthetic are the key discursive terms for research in this studio. Students are encouraged to explore the interconnectedness of image and sound through the medium of digital video. Concurrent with project ideation, the tools and techniques of image and audio processing will be advanced.

NOTE: Students who have received credit for DFAR 350 or 352 may not take this course for credit.

CART 354 *Virtual Dimensions* (3 credits)

Prerequisite: CART 261, 262; 24 credits in the

Specialization, Major, or Minor in Computation Arts; or written permission of the Department. This advanced studio builds upon 3D modelling for animation, gaming, and spatial environments. Concurrent with the development of technical skill sets, students develop thematic projects with consideration given to industry standards and cultural products for public or private enterprise.

NOTE: Students who have received credit for DFAR 354 may not take this course for credit.

CART 355 *Topics in Kinetic Imagery*
(3 credits)

Prerequisite: 24 credits in the Specialization, Major, or Minor in Computation Arts. This course provides an opportunity for the study of special topics in kinetic imagery. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for DFAR 355 may not take this course for credit.

CART 356 *Topics in Abstract Soundscapes*
(3 credits)

Prerequisite: 24 credits in the Specialization, Major, or Minor in Computation Arts. This course provides an opportunity for the study of special topics in abstract soundscapes. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for DFAR 356 may not take this course for credit.

CART 357 *Topics in Digital Space*
(3 credits)

Prerequisite: 24 credits in the Specialization, Major, or Minor in Computation Arts. This course provides an opportunity for the study of special topics in digital and immersive space. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for DFAR 357 may not take this course for credit.

CART 358 *Topics in Senses and Perception*
(3 credits)

Prerequisite: 24 credits in the Specialization, Major, or Minor in Computation Arts. Research into sensory perception, touch, and noise is key to project proposals, methodology, and production. Interdisciplinary referencing and collaborative projects are emphasized. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for DFAR 358 may not take this course for credit.

CART 360 *Tangible Media and Physical Computing*
(3 credits)

Prerequisite: 24 credits in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. This course explores the concepts of tangible media and physical computation as well as related concepts of ubiquitous computing, wearable computing, and interaction

design. The focus is on conceptual development, prototyping, and implementation of tangible media and physical computing artifacts from the perspectives of technical proficiency, functionality, aesthetics, and personal/social meaning.

NOTE: Students who have received credit for DFAR 360 may not take this course for credit.

CART 363 *Advanced Languages of Programming*
(3 credits)

Prerequisite: CART 253; 24 credits in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. An investigation of paradigms for programming, with concentration on topics of interest to digital art and design. Through lectures, readings, and projects, students explore topics including affective computing, artificial life, evolutionary computation, and mathematical programming.

CART 398 *Special Topics in Computation Arts*
(3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. This course provides an opportunity for the study of specialized aspects and applications in computation arts. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CART 451 *Interactive Multimedia*
(3 credits)

Prerequisite: CART 351, 253*; 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. In this combination theory and studio course, students investigate diverse methods of interactive media design. They look at the history of interactive media in order to gain a critical understanding of its current state, and learn about the tools and techniques available for creative, effective work. Regular design briefs require that students experiment with and develop their own design style.
NOTE: Students who have received credit for DFAR 450 or 451 may not take this course for credit.

**Students registered in the Specialization.*

CART 452 *Tri-Media Productions*
(3 credits)

Prerequisite: CART 451; 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. Students pursue individualized projects from one or more of the three areas of concentration: visual Web/screen-based projects, auditory/sonic works, and three-dimensional/modelling/animation.
NOTE: Students who have received credit for DFAR 450 or 452 may not take this course for credit.

CART 453 *The Digital Nomad*
(3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. This studio course is based

on mobility or nomadic considerations in new media productions. Transportable and flexible equipment configurations are developed to support on-site performance events, projection, and multimedia installations.

NOTE: Students who have received credit for DFAR 453 may not take this course for credit.

CART 454 *Topics in Multimedia Theory*
(3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. A seminar with a studio component, concentrating on current discourse in multimedia.

NOTE: Students who have received credit for DFAR 454 may not take this course for credit.

CART 455 *Professional Internship I*
(3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. Students work in the industry for a period of nine to thirteen weeks to allow them to gain experience in design firms and multimedia companies. Internships approved for credit must demonstrate an appropriate academic experience for the student.

NOTE: Students who have received credit for DFAR 455 may not take this course for credit.

CART 456 *Professional Internship II*
(3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts, or written permission of the Department. Students work in the industry for a period of nine to thirteen weeks to gain experience in design firms and multimedia companies. Internships approved for credit must demonstrate an appropriate academic experience for the student.

NOTE: Students who have received credit for DFAR 456 may not take this course for credit.

CART 457 *Independent Study I* (3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. This option is for students choosing to undertake independent research under the supervision of a full-time faculty advisor. Research projects approved for credit must demonstrate an appropriate academic experience for the student.

NOTE: Students who have received credit for DFAR 457 may not take this course for credit.

CART 458 *Independent Study II* (3 credits)

Prerequisite: 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. This option is for students choosing to undertake independent research under the supervision of a full-time faculty advisor. Research projects approved for credit must demonstrate an appropriate academic experience for the student.

NOTE: Students who have received credit for DFAR 458 may not take this course for credit.

CART 460 *Bending Bits: Advanced Topics in Digital Media* (3 credits)

Prerequisite: CART 451 previously or concurrently; 48 credits in the Specialization or Major in Computation Arts; or written permission of the Department. An advanced studio course examining the ways computation can be deeply integrated into students' creative practices.

Projects look at how computation can be used to transform interactivity into a sematic strategy, input/output into a dialogue between the user, the work, and the world, and data processing into means of aesthetic exploration.

NOTE: Students are expected to have solid skills in general-purpose programming before starting the class.

NOTE: Students who have received credit for DFAR 460 may not take this course for credit.

CART 498 *Special Topics in Computation Arts* (3 credits)

Prerequisite: Enrolment in the Specialization, Major, or Minor in Computation Arts; or written permission of the Department. An advanced course which provides an opportunity for the study of specialized aspects and applications in digital fine arts. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Design Art:

DART 221 *Primary Digital Graphics*
(3 credits)

Prerequisite: Enrolment in the Major in Design or written permission of the Department. This computer lab course combines hands-on workshops with content-driven projects. Students are introduced to the fundamentals of graphic composition and communication for digital graphic arts. Photoshop, Illustrator, and QuarkXPress are introduced to explore image/text juxtaposition, layout, and typography.

NOTE: Students who have received credit for DART 200 may not take this course for credit.

DART 223 *Concept Visualization*
(3 credits)

Prerequisite: Enrolment in the Major in Design or written permission of the Department. This studio course is oriented toward traditional and innovative techniques to represent visual concepts for communication and production. Students develop their skills in descriptive geometry and 3D visualization. The course includes sketching, perspective, and technical drawing. It also introduces creative methods of articulation and presentation.

NOTE: Students who have received credit for DART 200 may not take this course for credit.

DART 225 *Materials for 3D Design*
(3 credits)

Prerequisite: Enrolment in the Major in Design or written permission of the Department. This foundation studio course addresses materials and construction applications. Wood, metal, and

plastics are examined as the primary building materials and surfaces for object-making. Knowledge acquisition is achieved through hands-on workshops, in combination with content-driven projects.
NOTE: Students who have received credit for DART 200 may not take this course for credit.

DART 229 *The Pixelated Eye* (3 credits)
Prerequisite: Enrolment in the Major in Design or written permission of the Department. This studio course introduces conceptual and technical skills for recording and manipulating digital imagery. Topics include visual representation, image appropriation and copyright, documentation and archiving. Technical exercises and conceptually based projects take place in the studio and on location.
NOTE: Students who have received credit for DART 200 may not take this course for credit.

DART 261 *Design History and Theory I*
(3 credits)
Prerequisite: Enrolment in the Major in Design or written permission of the Department. Through readings, lectures, and dialogue, this course examines key themes in design and cultural history and theory, from industrialization to the beginning of the twentieth century, with an emphasis on their ongoing relevance in the contemporary realm. Effective research methods in the discipline are introduced to facilitate development of students' analytical and critical abilities, both oral and written.
NOTE: Students are required to take this course in the first year of the Design program.
NOTE: Students who have received credit for DART 260 may not take this course for credit.

DART 262 *Design History and Theory II*
(3 credits)
Prerequisite: DART 261; enrolment in the Major in Design or written permission of the Department. This course examines key themes in design and cultural history and theory since the early twentieth century, with an emphasis on their relevance to contemporary discourse and practice. Building on their emerging research, analytical, and communication skills in the field, students are also encouraged to apply these abilities to the evolution of their own conceptual design processes.
NOTE: Students who have received credit for DART 260 may not take this course for credit.

DART 280 *2D Digital Concepts* (3 credits)
Prerequisite: DART 221, 223, 225 or 229; DART 291, 292 previously or concurrently; or written permission of the Department. The central theme of this studio course is the rescripting of formal texts into complementary works in the form of "livres d'objets". Utilizing digital layout and studio construction techniques for graphic design and packaging, students integrate design theory and practice through the inventive richness of bookworks.
NOTE: Students who have received credit for DART 200 may not take this course for credit.

DART 291 *Integrative Design Research I*
(3 credits)
Prerequisite: DART 221, 223, 225 or 229; DART 261 previously or concurrently; or written permission of the Department. This theory-based course concentrates on integrative research and methodology in design art, by mapping the relationship of the individual within the public and private spaces of interdependence.
NOTE: Students who have received credit for DART 210 or 290 may not take this course for credit.

DART 292 *Integrative Design Research II*
(3 credits)
Prerequisite: DART 221, 223, 225 or 229; DART 291; DART 261, 262, 280 previously or concurrently; or written permission of the Department. This theory-based course explores aspects of design art research and methodology, specifically the relationship between design and dominant cultural ideologies in both the public and private sphere. It also investigates the interconnectedness of design to the fine arts, humanities, and sciences. This is a continuation of DART 291.
NOTE: Students who have received credit for DART 210 or 290 may not take this course for credit.

DART 298 *Special Topics in Design Art*
(3 credits)
Prerequisite: Enrolment in the Major in Design or written permission of the Department. This course provides an opportunity for the study of special issues in Design. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

DART 331 *Words in Space* (3 credits)
Prerequisite: DART 280; DART 391, 392 previously or concurrently; or written permission of the Department. This computer lab course emphasizes the poetics of typography with respect to font, type, text, and scripted experimentation. Issues of legibility, freedom of expression in type, and contemporary typography are referenced in the process of generating unique font sets.
NOTE: Students who have received credit for DART 300 may not take this course for credit.

DART 335 *Interpretive Public Spaces*
(3 credits)
Prerequisite: DART 380 or 381; DART 391, 392 previously or concurrently; or written permission of the Department. This studio course develops strategies for interactions in the public sphere. The application of scenography, planning of space and the integration of content orients the student towards the design of museum installations, mobile exhibitions, and performative events.

DART 339 *Second Skin and Soft Wear*
(3 credits)
Prerequisite: DART 380 or 381; DART 391, 392 previously or concurrently; or written permission of the Department. This studio course explores

the idea of “skin” and “soft” as terms that possess physical and associative properties. Housing for the body, computer wearables, sculptural design and soft furniture are considered as design concepts for maquettes and prototypes. Recycling of materials and alternative material use are emphasized.

DART 380 3D Digital Concepts (3 credits)
Prerequisite: DART 280; 24 credits in the Major in Design; or written permission of the Department. This computer lab course introduces students to computer-assisted 3D design concepts. Practical exercises advance technical skills and are combined with thematic proposals for virtual object representation. Scaled object production is encouraged in the final stages of the studio.
NOTE: Students who have received credit for DART 300 may not take this course for credit.

**DART 381 Digital Concepts/
Multimedia** (3 credits)
Prerequisite: DART 280; 24 credits in the Major in Design; or written permission of the Department. This computer lab course introduces students to 3D modelling and rendering and basic animation for multimedia applications. Practical exercises advance technical skills and are combined with thematic proposals for 3D objects and virtual space in networked environments.
NOTE: Students who have received credit for DART 300 may not take this course for credit.

**DART 391 Collaborative Design
Research I** (3 credits)
Prerequisite: DART 261, 262, 291, 292; 24 credits in the Major in Design; or written permission of the Department. This is a core theory-based studio course in research methodology and strategies for collaborative project development, highlighting the role of designer as mediator and author. Particular attention is given to the democratic voice within the community and to environmental sustainability.
NOTE: Students who have received credit for DART 310 or 390 may not take this course for credit.

**DART 392 Collaborative Design
Research II** (3 credits)
Prerequisite: DART 261, 262, 291, 292, 391; 24 credits in the Major in Design; or written permission of the Department. This is a core theory-based studio course which highlights collaborative approaches to the application of research methodology and strategies pertaining to design as an ethical and socially conscious construct. This is a continuation of DART 391.
NOTE: Students who have received credit for DART 310 or 390 may not take this course for credit.

DART 398 Special Topics in Design
(3 credits)
Prerequisite: 24 credits in the Major in Design or written permission of the Department. This course provides an opportunity for the study of special

issues in design art. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

DART 441 The Culture of Images
(3 credits)
Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This studio course explores images as composite surfaces informed by the urban landscape. Strategies for commentary, and engagement in image-saturated societies include image ethics, appropriation, and design as intervention. Book works, projected images and print series are produced, and range in size from handheld to the architectural.
NOTE: Students who have received credit for DART 422 may not take this course for credit.

DART 442 Scenarios for Typography
(3 credits)
Prerequisite: DART 331; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This computer lab course, subtitled “Gutenberg verses for a Macintosh play,” engages in the eccentricity of typographic exploration through relocation, rescaling, and renaming of script. The potential for poetic play on words is explored through text as image and object.
NOTE: Students who have received credit for DART 422 may not take this course for credit.

DART 443 Print: Meaning and Process
(3 credits)
Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This computer lab course focuses on graphic design in publishing systems. The implications of mass production, the responsible use of resources, and alternative print and packaging processes are key factors in the ecology of image production.
NOTE: Students who have received credit for DART 424 may not take this course for credit.

DART 444 The Articulate Self (3 credits)
Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. The uniqueness of each artistic identity is explored in this course through the production of the portfolio. Content and written support must be developed in tandem to locate the experience, abilities, and future potential of the designer.
NOTE: Students who have received credit for DART 424 may not take this course for credit.

DART 445 The Narrative Object (3 credits)
Prerequisite: DART 380 or 381; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. In this studio course, the mythic potential of objects as personal and cultural markers is considered in the context of everyday life. Students construct meaning through objects,

responding to the potential for expression inherent in materials, structure, and form. The rigour of observation, analysis, and interpretation of object stimulates opportunities for multiple readings.
NOTE: Students who have received credit for DART 423 may not take this course for credit.

DART 446 *Encultured Space* (3 credits)

Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This design studio course focuses on the notion that all objects reside in an encultured space. Students are encouraged to investigate the nuances and connotations of the urban landscape which govern an understanding of these objects, by direct interventions into physical and symbolic character.
NOTE: Students who have received credit for DART 423 may not take this course for credit.

DART 447 *3D Design Technologies* (3 credits)

Prerequisite: DART 380; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This design studio course allows students to explore the integration of digital technologies in all aspects of the design process. Computer-assisted design, 3D scanning and rapid prototyping technologies are facilitated in order to develop innovative concepts in object production.
NOTE: Students who have received credit for DART 425 may not take this course for credit.

DART 448 *Ecology and 3D Design* (3 credits)

Prerequisite: DART 380; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This design studio course is oriented towards sustainable design and environmental issues. Strategies including design for disassembly, recuperation, recycling and lifecycle analysis are used to develop objects that conform with principles of design responsibility. Student works will be juried and selected for public exhibition.
NOTE: Students who have received credit for DART 425 may not take this course for credit.

DART 449 *The Language of the Web* (3 credits)

Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This lab course explores the technical and conceptual challenges facing designers working online. Students construct websites engaging directly with notions of interactivity, graphic user interface, image sequencing, navigation, and innovative ways of organizing and disseminating information.
NOTE: Students who have received credit for DART 410 or 411 may not take this course for credit.

DART 450 *Web Interventions* (3 credits)

Prerequisite: DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or

written permission of the Department. This lab course examines the strategies and discourse of socially engaged designers, artists in networked environments. Through the creation of their own online interventions, students are encouraged to question the "promise" of new communication technologies as open and democratic instruments of social change.

NOTE: Students who have received credit for DART 410 or 411 may not take this course for credit.

DART 451 *Digital Interaction* (3 credits)

Prerequisite: DART 381; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. This lab course considers the rhetoric of interactivity. The ubiquity of the graphic user interface is problematized through the use of non-linear narrative and metaphor. Students develop and select new paradigms for human-computer interaction.
NOTE: Students who have received credit for DART 410 or 411 may not take this course for credit.

DART 452 *Immersive Media* (3 credits)

Prerequisite: DART 381; DART 491, 492 previously or concurrently; 48 credits in the Major in Design; or written permission of the Department. Students in this interdisciplinary lab course consider the expanded use of technologies for digital media in the context of 3D objects and environments. Through collaborative projects, students explore immersive installations integrating sound, video, interactivity, and performative events.
NOTE: Students who have received credit for DART 410 or 411 may not take this course for credit.

DART 460 *Independent Study* (3 credits)

Prerequisite: 48 credits in the Major in Design; or written permission of the Department. This option is for students wishing to undertake independent research under the supervision of a full-time faculty advisor.

DART 461 *Independent Study* (3 credits)

Prerequisite: 48 credits in the Major in Design; or written permission of the Department. This option is for students wishing to undertake independent research under the supervision of a full-time faculty advisor.

DART 470 *Professional Internship* (6 credits)

Prerequisite: 48 credits in the Major in Design; written permission of the Department. This option is for students wishing to undertake research and obtain practical experience for academic credit as an intern with an established artist/designer, studio, publication, publishing house, museum, corporation, or non-profit organization. Other related options for internship will also be considered. The internship is carried out under the joint supervision of a qualified professional from within the University or the organization involved

and a full-time faculty member. A clearly defined agreement between the Department, the student and the artist/designer or institution involved is made before the internship is undertaken. This agreement states clearly the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate an appropriate academic experience for the student.

DART 471 *Professional Internship*
(3 credits)

Prerequisite: 48 credits in the Major in Design; written permission of the Department. Three-credit internship, as described in DART 470, for one semester only.

DART 491 *Discursive Design Research I*
(3 credits)

Prerequisite: DART 391, 392; 48 credits in the Major in Design; or written permission of the Department. This core theoretical course combines lectures and discussions, emphasizing the contextual and societal implications of the design process from conception to production. Multidisciplinary approaches to design research and methodology allow students to advance the discourse of their own emerging design ethic and aesthetic.
NOTE: Students who have received credit for DART 400 or 490 may not take this course for credit.

DART 492 *Discursive Design Research II*
(3 credits)

Prerequisite: DART 391, 392, 491; 48 credits in the Major in Design; or written permission of the Department. This core course explores the interstices between visual culture, material culture, and related theoretical discourses **as disciplines which profoundly influence the design process**. Particular attention is devoted to multidisciplinary engagement as applied to individual design scenarios. This course is a continuation of DART 491.

NOTE: Students who have received credit for DART 400 or 490 may not take this course for credit.

DART 498 *Special Topics in Design*
(3 credits)

Prerequisite: 48 credits in the Major in Design; or written permission of the Department. A course for advanced students which provides an opportunity for the study of special issues in design art. **Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.**

81.100 MUSIC

<p><i>Faculty</i></p>	<p><i>Chair</i> T.B.A.</p> <p><i>Canada Research Chair</i> SANDEEP BHAGWATI</p> <p><i>Professor</i> ANDREW HOMZY</p> <p><i>Associate Professors</i> LISELYN ADAMS KEVIN AUSTIN</p> <p>JERI BROWN MARK CORWIN ROD ELLIAS CHARLES ELLISON CHRISTOPHER JACKSON ROSEMARY MOUNTAIN</p> <p><i>Assistant Professor</i> CHRISTINE BECKETT</p>		
<p><i>Location</i></p>	<p><i>Loyola Campus</i> Refectory Building, Room: RF 326 514-848-2424 ext. 4705</p>		
<p><i>Department Objectives</i></p>	<p>The Mission of the Department of Music is to develop musicians, to support musical activities through teaching, research and performances, and to foster the appreciation of the value of music and fine arts in society.</p> <p>The Department is committed to the development of musicians through options and opportunities found within the multi-disciplinary context of the Faculty of Fine Arts through generalized and specialized education.</p> <p>Areas of study include theory, history, instrumental and vocal studies, including ensembles and private study, composition, jazz, electroacoustics/recording, and music technology.</p> <p>Academic scholarship, research, and creativity enhance faculty members' teaching which furthers the Department's involvement in national and international artistic and scholarly communities.</p>		
<p><i>Programs</i></p>	<p><i>Students are responsible for fulfilling their particular degree requirements; hence, the following sequences must be read in conjunction with §81.20.</i></p> <p><i>The superscript indicates credit value.</i></p> <p>SPECIALIZATION IN MUSIC</p> <p>The Faculty of Fine Arts offers three Specialization programs in Music, each of 66 credits. Students applying for entrance to the Department are accepted into the Major in Integrative Music Studies. Upon completion of 30 credits, students may apply for transfer into a Specialization. Acceptance into a Specialization is based on the student's general academic performance in all University courses, but especially in the Music courses.</p> <table border="0"> <tr> <td data-bbox="500 1350 911 1776"> <p>66 BFA Specialization in Jazz Studies</p> <p>6 JAZZ 200⁶ or, if exempt, Department of Music electives, excluding MUSI 200⁶ and INMS 209³, 251³, and 252³</p> <p>21 JPER 220⁶; INMS 210³, 311³, 351³, 352^{3*}; MPER 231³</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>18 Chosen from JAZZ 301³, 302³, 305⁶, 401³, 402³, 405⁶; JPER 321³, 330⁶, 341³, 421³, 422³, 430⁶, 441³</p> <p>3 Department of Music electives, excluding MUSI 200⁶, INMS 209³, 251³, and 252³, chosen in consultation with a Music advisor.</p> </td><td data-bbox="959 1350 1375 1856"> <p>66 BFA Specialization in Music Performance Studies</p> <p>30 INMS 209³, 210³, 251³, 252³, 311³, 351³, 352^{3*}; MPER 231³, 490⁶</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MUSI 330⁶ or MPER 390⁶</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>12 Chosen from MPER 201³, 298³, 301³, 321³, 322³, 331³, 398³, 399⁶, 401³, 421³, 422³, 431³, 498³, 499⁶</p> <p><i>*With permission of the Department of Music, students with exemption for INMS 351³ and 352³ substitute INMS 451³ and 452³.</i></p> <p>66 BFA Specialization in Music Composition</p> <p>21 INMS 210³, 311³, 351³, 352³, 451³, 452³; MPER 231³</p> </td></tr> </table> <p><i>*With permission of the Department of Music, students with exemption for INMS 351³ and 352³ substitute INMS 451³ and 452³.</i></p>	<p>66 BFA Specialization in Jazz Studies</p> <p>6 JAZZ 200⁶ or, if exempt, Department of Music electives, excluding MUSI 200⁶ and INMS 209³, 251³, and 252³</p> <p>21 JPER 220⁶; INMS 210³, 311³, 351³, 352^{3*}; MPER 231³</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>18 Chosen from JAZZ 301³, 302³, 305⁶, 401³, 402³, 405⁶; JPER 321³, 330⁶, 341³, 421³, 422³, 430⁶, 441³</p> <p>3 Department of Music electives, excluding MUSI 200⁶, INMS 209³, 251³, and 252³, chosen in consultation with a Music advisor.</p>	<p>66 BFA Specialization in Music Performance Studies</p> <p>30 INMS 209³, 210³, 251³, 252³, 311³, 351³, 352^{3*}; MPER 231³, 490⁶</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MUSI 330⁶ or MPER 390⁶</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>12 Chosen from MPER 201³, 298³, 301³, 321³, 322³, 331³, 398³, 399⁶, 401³, 421³, 422³, 431³, 498³, 499⁶</p> <p><i>*With permission of the Department of Music, students with exemption for INMS 351³ and 352³ substitute INMS 451³ and 452³.</i></p> <p>66 BFA Specialization in Music Composition</p> <p>21 INMS 210³, 311³, 351³, 352³, 451³, 452³; MPER 231³</p>
<p>66 BFA Specialization in Jazz Studies</p> <p>6 JAZZ 200⁶ or, if exempt, Department of Music electives, excluding MUSI 200⁶ and INMS 209³, 251³, and 252³</p> <p>21 JPER 220⁶; INMS 210³, 311³, 351³, 352^{3*}; MPER 231³</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>18 Chosen from JAZZ 301³, 302³, 305⁶, 401³, 402³, 405⁶; JPER 321³, 330⁶, 341³, 421³, 422³, 430⁶, 441³</p> <p>3 Department of Music electives, excluding MUSI 200⁶, INMS 209³, 251³, and 252³, chosen in consultation with a Music advisor.</p>	<p>66 BFA Specialization in Music Performance Studies</p> <p>30 INMS 209³, 210³, 251³, 252³, 311³, 351³, 352^{3*}; MPER 231³, 490⁶</p> <p>6 MUSI 230⁶ or MUSI 231³ and 232³</p> <p>6 MUSI 330⁶ or MPER 390⁶</p> <p>6 MHIS 200⁶ or, if exempt, MHIS electives</p> <p>6 MHIS electives</p> <p>12 Chosen from MPER 201³, 298³, 301³, 321³, 322³, 331³, 398³, 399⁶, 401³, 421³, 422³, 431³, 498³, 499⁶</p> <p><i>*With permission of the Department of Music, students with exemption for INMS 351³ and 352³ substitute INMS 451³ and 452³.</i></p> <p>66 BFA Specialization in Music Composition</p> <p>21 INMS 210³, 311³, 351³, 352³, 451³, 452³; MPER 231³</p>		

6	MUSI 231 ³ , 232 ³	6	MHIS 200 ⁶ or, if exempt, MHIS electives
6	MHIS 200 ⁶ or, if exempt, Music electives	6	MHIS electives
6	MHIS electives	12-15	Department of Music electives, excluding MUSI 200 ⁶
12	INMS 360 ⁶ , 460 ⁶		<i>*With permission of the Department of Music, students with exemption for INMS 351³ and 352³ substitute INMS 451³ and 452³.</i>
15	Department of Music electives, excluding MUSI 200 ⁶ , INMS 209 ³ , 251 ³ , and 252 ³ , chosen in consultation with a Music advisor.		
48	BFA Major in Electroacoustic Studies	24	Minor in Electroacoustic Studies
6	MUSI 200 ⁶	12	EAMT 205 ⁶ or EAMT 203 ³ and 204 ³ ; EAMT 305 ⁶
9	INMS 209 ³ , 251 ³ , 252 ³	6	Department of Music electives
6	MHIS 200 ⁶ or, if exempt, MHIS electives	6	Chosen from MUSI 200 ⁶ ; JAZZ 200 ⁶ ; MHIS 200 ⁶
6	EAMT 205 ⁶ or EAMT 203 ³ and 204 ³		
15	Chosen from EAMT 298 ³ , 305 ⁶ , 350 ⁶ , 398 ³ , 406 ³ , 407 ³ , 451 ³ , 452 ³ , 471 ³ , 472 ³ , 498 ³	24	Minor in Music
6	Department of Music electives	9	INMS 209 ³ and 251 ³ and 252 ³ or, if exempt, Music electives selected in consultation with a Music advisor
54	BFA Major in Integrative Music Studies	15	Music electives chosen in consultation with a Music advisor
24	INMS 209 ³ , 210 ³ , 251 ³ , 252 ³ , 311 ³ , 351 ^{3*} , 352 ^{3*} ; MPER 231 ³		
3-6	Chosen from MUSI 230 ⁶ , 231 ³ , 232 ³		

81.100.1
Admission to
Programs in Music

In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to Music programs. All applicants to the Major in Integrative Music Studies must attend an *interview/audition*. All applicants to the Major or Minor in Electroacoustic Studies must submit a *portfolio* of their own work, as well as a *letter of intent*. All applicants to the Major and Minor programs in Music are required to write a Theory and Ear-Training Placement Test (for placement in theory courses.)
For more information concerning these additional requirements and submission deadline dates, please visit the following website: <http://fofa.concordia.ca/portfolioaudition>.

81.100.2
Admission to
Courses in Music for
Non-Music Students

Specific procedures must be followed by all non-Music Majors wishing to register in the Department of Music.

- Not all courses are available to non-Music students. Please consult the Department of Music for policy and accessibility of courses.
- Students who wish to register for courses which have a theory prerequisite, given availability, must write the Theory placement test. This is done in the Department of Music at least two weeks prior to the registration appointment date.
- Students who wish to sing or play in an ensemble must contact the Department of Music for information concerning audition and registration for Music Performance courses.

Courses

For specific information regarding entrance to courses in the Department of Music please see above.

Electroacoustics and Music Technology:

EAMT 203 *Digital Audio Editing* (3 credits)
An introduction to the study and practice of the Acousmatic and Sound Art tradition through the use of the computer as a manipulation platform and creative environment for the exploration of sound. This course includes historical and aesthetic aspects of the art. Classic and contemporary electroacoustic techniques are explored as well as applications of electroacoustics in popular music. Related topics in acoustics, psychoacoustics, hearing, and audio technology are covered in order to provide a background for effective work in the digital environment.
NOTE: Students who have received credit for

EAMT 205 or for this topic under an EAMT 398 or 399 number may not take this course for credit.

EAMT 204 *Analog Studio Techniques* (3 credits)
Prerequisite: EAMT 203. A lecture/workshop introduction to the analog studio. This course offers continued study and practice of the Acousmatic and Sound Art through historical, aesthetic, and compositional assignments, as well as continued development of classic and contemporary electroacoustic techniques as they relate to the analog electroacoustic studio. Aspects of the studio including the basics of recording, tape manipulation techniques, mixing and multi-track recording, analog synthesis and signal processing are introduced and covered. Related topics in acoustics, psychoacoustics,

hearing, and audio technology are covered in order to provide a background for effective work in the electroacoustic studio environment.

NOTE: Students who have received credit for EAMT 205 or for this topic under an EAMT 398 or 399 number may not take this course for credit.

EAMT 205 *Electroacoustics I* (6 credits)

A seminar/workshop in electroacoustics introducing composition through a series of directed studies involving tape editing, recording, musique concrète, processing of analog sounds, and analog synthesis. Other topics include history, acoustics and psycho-acoustics, recent technological developments, digital signal processing, computer applications, and MIDI. Classroom and laboratory. *NOTE A/See \$200.3*

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for EAMT 203 or 204 or CMUS 310 may not take this course for credit.

EAMT 298 *Special Topics in Electroacoustics* (3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in electroacoustics.

EAMT 305 *Electroacoustics II* (6 credits)

Prerequisite: EAMT 205 or EAMT 203 and 204. A seminar/workshop in electroacoustics with continued work in composition, history, and sound technology. Technological developments, computer applications, MIDI, and contemporary techniques are explored in depth through a series of directed studies involving digital signal processing, multi-track studio techniques, digital synthesis and sampling. Classroom and laboratory.

NOTE A/See \$200.3

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for CMUS 410 may not take this course for credit.

EAMT 350 *Sound Recording and Reinforcement I* (6 credits)

Prerequisite: MUSI 200 or EAMT 205. An intensive hands-on seminar/workshop studying the techniques used to record and edit music in settings ranging from live concert performances to studio session recordings. Hands-on experience and aural perception is developed during ensemble rehearsal and recording sessions. Emphasis is placed on production topics such as multi-track recording, microphone placement systems, audio processes. An understanding of the language of music through basic music appreciation skills as they relate to recording and editing of music is developed.

NOTE A/See \$200.3

NOTE: Students who have received credit for CMUS 350 may not take this course for credit.

EAMT 398 *Special Topics in Electroacoustics and Technology* (3 credits)

Prerequisite: Written permission of the Depart-

ment of Music. A study of a selected area not available in other courses in electroacoustics and technology.

EAMT 399 *Special Topics in Electroacoustics and Technology* (6 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in electroacoustics and technology.

EAMT 406 *Electroacoustic Composition Seminar/Workshop I* (3 credits)

Prerequisite: EAMT 305. A seminar/workshop for advanced students in electroacoustics. The focus is compositional. An interdisciplinary aspect to the final project is encouraged. Classroom and laboratory. *NOTE C/See \$200.3*

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for CMUS 446 may not take this course for credit.

EAMT 407 *Electroacoustic Composition Seminar/Workshop II* (3 credits)

Prerequisite: EAMT 406. A continuation of EAMT 406.

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for CMUS 447 may not take this course for credit.

EAMT 451 *Sound Recording and Reinforcement II* (3 credits)

Prerequisite: EAMT 350. A continuation of EAMT 350. Emphasis is on advanced independent projects.

NOTE: This is a full-year course.

NOTE: Students who have received credit for CMUS 450 may not take this course for credit.

EAMT 452 *Sound Recording and Reinforcement III* (3 credits)

Prerequisite: EAMT 451. A continuation of EAMT 451.

NOTE: This is a full-year course.

EAMT 471* *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department of Music. A student-designed course of study, approved by an advisor, that focuses on an area of electroacoustics and/or music technology. **Students may count a maximum of nine credits in independent studies towards their degree program.*

EAMT 472* *Independent Study II* (3 credits)

Prerequisite: EAMT 471 and written permission of the Department of Music. A student repeating EAMT 471 registers for EAMT 472 for credit. **Students may count a maximum of nine credits in independent studies towards their degree program.*

EAMT 498 *Special Topics in Electroacoustics and Technology* (3 credits)

Prerequisite: Written permission of the Depart-

ment of Music. An advanced study of a selected area not available in other courses in electro-acoustics and technology.

EAMT 499 *Special Topics in Electroacoustics and Technology* (6 credits)

Prerequisite: Written permission of the Department of Music. An advanced study of a selected area not available in other courses in electro-acoustics and technology.

Integrative Music Studies:

INMS 209 *Aural Perception I* (3 credits)

Prerequisite: MUSI 200 or exemption. A course designed to develop the musical ear through intermediate-level sight-singing, dictation, aural analysis, and keyboard skills. Classroom and laboratory.

NOTE: Students enrolled in any specialization offered by the Department of Music may not apply credits for this course towards the 90-credit degree requirements.

NOTE: Students who have received credit for this topic under INMS 499 or MUSI 210 may not take this course for credit.

INMS 210 *Aural Perception II* (3 credits)

Prerequisite: INMS 209 or equivalent. A continuation of the development of the musical ear through intermediate-level sight-singing, dictation, aural analysis, and keyboard skills. Classroom and laboratory. *NOTE A/See \$200.3*

NOTE: Students who have received credit for this topic under INMS 310 may not take this course for credit.

INMS 251 *Melody and Counterpoint* (3 credits)

Prerequisite: MUSI 200 or equivalent. An introduction to the basic elements of melodic construction and contrapuntal technique, with reference to a variety of genres, studied through analysis and composition.

NOTE: Students enrolled in any specialization offered by the Department of Music may not apply credits for this course towards the 90-credit degree requirements.

NOTE: Students who have received credit for this topic under INMS 250, 499 or MUSI 210 may not take this course for credit.

INMS 252 *Harmony I* (3 credits)

Prerequisite: MUSI 200 or equivalent. An introduction to the basic and intermediate principles of harmonic progressions and voice-leading within the tonal system, with reference to a variety of styles and genres, studied through analysis and composition.

NOTE: Students enrolled in any specialization offered by the Department of Music may not apply credit for this course towards the 90-credit degree requirements.

NOTE: Students who have received credit for this topic under INMS 250, 499 or MUSI 210 may not take this course for credit.

INMS 298 *Special Topics in Integrative Music Studies* (3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in INMS.

INMS 311 *Aural Perception III* (3 credits)

Prerequisite: INMS 210 or equivalent. A continuation of aural perception development through sight-singing, dictation, transcription and aural analysis. Classroom and laboratory.

NOTE A/See \$200.3

NOTE: Students who have received credit for INMS 310 may not take this course for credit.

INMS 312 *Aural Perception IV* (3 credits)

Prerequisite: INMS 311 or equivalent. Advanced aural perception development through sight-singing, dictation, transcription and aural analysis. *NOTE A/See \$200.3*

INMS 320 *Comparative Analysis I* (6 credits)

Prerequisite: INMS 351 or exemption. Development of analytical methodology. Study of selected works representing various forms and styles from different historical periods.

NOTE A/See \$200.3

INMS 351 *Analysis* (3 credits)

Prerequisite: INMS 252. An introduction to analytical techniques relating to form, motivic development, and texture, with reference to a variety of styles and genres. *NOTE A/See \$200.3*

NOTE: Students who have received credit for INMS 350 may not take this course for credit.

INMS 352 *Harmony II* (3 credits)

Prerequisite: INMS 252. A continuation of the study of harmonic progressions and voice-leading within the expanded tonal system, with reference to a variety of styles and genres, studied through analysis and composition.

NOTE: Students who have received credit for this topic under INMS 350 may not take this course for credit.

INMS 360 *Music Composition I* (6 credits)

Prerequisite: Written permission of the Department of Music. A seminar/workshop in composition. Emphasis is on the development of the individual's composition skills.

NOTE A/See \$200.3

NOTE: Students who have received credit for CMUS 320 may not take this course for credit.

INMS 398 *Special Topics in Music Theory/Composition* (3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in theory, aural perception, composition, or orchestration.

INMS 399 *Special Topics in Music Theory/Composition* (6 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected

area not available in other courses in theory, aural perception, composition, or orchestration.

INMS 410 *Advanced Aural Training*
(6 credits)

Prerequisite: INMS 312 or exemption. An intensive study of selected problems in hearing, analysing, and transcribing music. The course combines individual and group exercises.
NOTE A/See §200.3

INMS 451 *Advanced Theoretical Studies I*
(3 credits)

Prerequisite: INMS 351, 352. Advanced study of principles and elements of music theory, especially within the tonal and modal contexts. May include harmony, counterpoint, and analysis.
NOTE A/See §200.3
NOTE: Students who have received credit for INMS 300 may not take this course for credit.

INMS 452 *Advanced Theoretical Studies II*
(3 credits)

Prerequisite: INMS 451. Advanced study of principles and elements of music theory, especially within the atonal context and twentieth-century techniques.
NOTE A/See §200.3
NOTE: Students who have received credit for INMS 450 may not take this course for credit.

INMS 460 *Music Composition II* (6 credits)

Prerequisite: INMS 360 and written permission of the Department of Music. A continuation of INMS 360. *NOTE A/See §200.3*
NOTE: Students who have received credit for CMUS 420 may not take this course for credit.

INMS 471* *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department of Music. A student-designed course of study that focuses on an approved area(s) of music theory, analysis, aural perception, orchestration, and/or related disciplines, and involves consultation with an advisor.
NOTE C/See §200.3
**Students may count a maximum of nine credits in independent studies towards their degree program.*

INMS 472* *Independent Study II* (3 credits)

Prerequisite: Written permission of the Department of Music. A student repeating INMS 471 registers for INMS 472 for credit.
**Students may count a maximum of nine credits in independent studies towards their degree program.*

INMS 498 *Special Topics in Music Theory/Composition* (3 credits)

Prerequisite: Written permission of the Department of Music. An advanced study of a selected area not available in other courses in theory, aural perception, composition, or orchestration.

INMS 499 *Special Topics in Music Theory/Composition* (6 credits)

Prerequisite: Written permission of the Department of Music.

An advanced study of a selected area not available in other courses in theory, aural perception, composition, or orchestration.

Jazz Studies:

JAZZ 200 *The Language of Jazz* (6 credits)

An introduction to the syntax, style, aesthetics, and sociology of jazz. The complete spectrum of styles and artists serves as the basis of materials for the course. *NOTE A/See §200.3*
NOTE: Students who have received credit for CMUS 200 may not take this course for credit.

JAZZ 298 *Special Topics in Jazz Studies*
(3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in jazz studies.

JAZZ 301 *Jazz Harmony* (3 credits)

Prerequisite: JAZZ 200; MUSI 200; or exemptions. The basics of jazz harmony.
NOTE: Students who have received credit for this topic under an INMS 498 number may not take this course for credit.

JAZZ 302 *Jazz Arranging I* (3 credits)

Prerequisite: JAZZ 301. The introductory study of writing arrangements based upon compositions from the American popular song and jazz repertoires for small and medium-size jazz ensembles. *NOTE A/See §200.3*
NOTE: Students who have received credit for INMS 332 may not take this course for credit.

JAZZ 305 *Jazz Composition I* (6 credits)

Prerequisite: JAZZ 302. A seminar/workshop in jazz composition. After an examination of components of composition from the jazz repertoire, students write original music based on the blues, American popular song forms, and such idioms as those in the style of bebop, bossa nova, ragtime, and modal jazz.
NOTE A/See §200.3
NOTE: Students who have received credit for CMUS 330 may not take this course for credit.

JAZZ 398 *Special Topics in Jazz Studies*
(3 credits)

Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. A seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of jazz outside the scope of existing courses.

JAZZ 399 *Special Topics in Jazz Studies*
(6 credits)

Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. A seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of jazz outside the scope of existing courses.

JAZZ 401 *Jazz Arranging II* (3 credits)
Prerequisite: JAZZ 302. The continued study of writing arrangements for large ensembles including original compositions and jazz repertoire. *NOTE A/See \$200.3*
NOTE: Students who have received credit for INMS 431 may not take this course for credit.

JAZZ 402 *Jazz Arranging III* (3 credits)
Prerequisite: JAZZ 401. The study of advanced techniques in jazz arranging. *NOTE A/See \$200.3*
NOTE: Students who have received credit for INMS 432 may not take this course for credit.

JAZZ 405 *Jazz Composition II* (6 credits)
Prerequisite: JAZZ 305. A continuation of JAZZ 305. *NOTE A/See \$200.3*
NOTE: Students who have received credit for CMUS 430 may not take this course for credit.

JAZZ 471** *Independent Study I* (3 credits)
Prerequisite: Second-year standing*, and written permission of the Department of Music. A student-designed course of study, approved by an advisor, that focuses on an area of jazz studies. *NOTE C/See \$200.3*
**66 or fewer credits remaining in degree program.*
***Students may count a maximum of nine credits in independent studies towards their degree program.*

JAZZ 472** *Independent Study II* (3 credits)
Prerequisite: JAZZ 471, second-year standing*, and written permission of the Department of Music. A student-designed course of study, approved by an advisor, that focuses on an area of jazz studies. *NOTE C/See \$200.3*
**66 or fewer credits remaining in degree program.*
***Students may count a maximum of nine credits in independent studies towards their degree program.*

JAZZ 498 *Special Topics in Jazz Studies* (3 credits)
Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. An advanced seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of jazz outside the scope of existing courses.

JAZZ 499 *Special Topics in Jazz Studies* (6 credits)
Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. An advanced seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of jazz outside the scope of existing courses.

Jazz Performance:

JPER 220 *Jazz Ensemble I* (6 credits)
Prerequisite: JAZZ 200 previously or concurrently. A performance/workshop in which students

participate in various Concordia jazz ensembles. *NOTE A/See \$200.3*
NOTE: Students are required to participate in public performances.
NOTE: Students who have received credit for CMUS 300 may not take this course for credit.

JPER 298 *Special Topics in Jazz Performance* (3 credits)
Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in jazz performance.

JPER 321 *Jazz Ensemble II* (3 credits)
Prerequisite: JPER 220. A continuation of JPER 220. *NOTE A/See \$200.3*
NOTE: This is a full-year course.
NOTE: Students are required to participate in public performances.
NOTE: Students who have received credit for CMUS 401 may not take this course for credit.

JPER 330 *Jazz Improvisation I* (6 credits)
Prerequisite: JAZZ 301 previously or concurrently; JAZZ 200. A performance-analysis course that examines the craft of jazz improvisation. A broad spectrum of jazz improvisational styles is examined. Participation in public performance is required.
NOTE: Students who have received credit for JPER 330 may not take this course for credit.

JPER 341 *Jazz Vocal Repertoire I* (3 credits)
Prerequisite: JAZZ 200; MUSI 231 in voice previously or concurrently. A study of jazz vocal technique through performance of representative compositions and arrangements, and study of professional recordings illustrative of various jazz vocal styles. Special focus is on performance styles as they relate to building audience-performer relationships. Students are expected to participate in public performances.
NOTE: Students who have received credit for this topic under an JPER 498 number may not take this course for credit.

JPER 398 *Special Topics in Jazz Performance* (3 credits)
Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. A study of a selected area not available in other courses in jazz performance.

JPER 399 *Special Topics in Jazz Performance* (6 credits)
Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. A study of a selected area not available in other courses in jazz performance.

JPER 421 *Jazz Ensemble III* (3 credits)
Prerequisite: JPER 321. A continuation of JPER 321. *NOTE A/See \$200.3*
NOTE: This is a full-year course.
NOTE: Students are required to participate in

public performances.

NOTE: Students who have received credit for CMUS 402 may not take this course for credit.

JPER 422 Jazz Ensemble IV (3 credits)

Prerequisite: JPER 421. A continuation of JPER 421. NOTE A/See §200.3

NOTE: This is a full-year course.

NOTE: Students are required to participate in public performances.

JPER 430 Jazz Improvisation II (6 credits)

Prerequisite: JPER 330. A continuation of JPER 330.

NOTE: Students who have received credit for JPER 430 may not take this course for credit.

JPER 441 Jazz Vocal Repertoire II
(3 credits)

Prerequisite: JPER 341. A continuation of JPER 341.

NOTE: Students who have received credit for this topic under an JPER 498 number may not take this course for credit.

JPER 471 Independent Study I** (3 credits)

Prerequisite: Second-year standing* or equivalent, and written permission of the Department of Music. A student-designed course of study, approved by an advisor, on an area of jazz performance practice. When appropriate, the study may include a performance.

*66 or fewer credits remaining in degree program.

**Students may count a maximum of nine credits in independent studies towards their degree program.

JPER 472* Independent Study II (3 credits)

Prerequisite: JPER 471 and written permission of the Department of Music. A student repeating JPER 471 registers for JPER 472 for credit.

*Students may count a maximum of nine credits in independent studies towards their degree program.

JPER 498 Special Topics in Jazz Performance (3 credits)

Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. An advanced study of a selected area not available in other courses in jazz performance.

JPER 499 Special Topics in Jazz Performance (6 credits)

Prerequisite: JAZZ 200 or exemption, and written permission of the Department of Music. An advanced study of a selected area not available in other courses in jazz performance.

Music History:

MHIS 200 Music History and Society
(6 credits)

A survey of musical styles in their social context, from pre-history to the present day. While emphasis is on the mainstream of the Western tradition, attention is also given to folk, popular, and jazz styles, as well as to the music of other cultures. NOTE A/See §200.3

NOTE: Students who have received credit for

MHIS 201 or 202, or for this topic under an MHIS 498 number may not take this course for credit.

MHIS 201 Eighteenth- and Nineteenth-Century Music History
(3 credits)

A survey of musical styles in their social context, taken from the eighteenth- and nineteenth-century traditions. While emphasis is on the mainstream of the Western tradition, attention is also given to folk and popular music, as well as to the music of other cultures.

NOTE: This course is the first half of MHIS 200.

It is not available to students enrolled in any program offered by the Department of Music.

NOTE: Students who have received credit for MHIS 200 or for this topic under an MHIS 498 number may not take this course for credit.

MHIS 202 Early and Twentieth-Century Music History (3 credits)

A survey of musical styles in their social context, taken from the Medieval, Renaissance, and Baroque periods as well as the twentieth century to the present day. While emphasis is on the mainstream of the Western tradition, attention is also given to folk, popular, and jazz styles, as well as to the music of other cultures.

NOTE: This course is the second half of MHIS 200.

It is not available to students enrolled in any program offered by the Department of Music.

NOTE: Students who have received credit for MHIS 200 or for this topic under an MHIS 498 number may not take this course for credit.

MHIS 298 Special Topics in Music History (3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in music history.

MHIS 301 Medieval and Renaissance Music (3 credits)

Prerequisite: MHIS 200; INMS 209, 251, 252.

The development of the basic patterns of Western music is traced through the Middle Ages. The resulting musical styles from the mid-fifteenth to the end of the sixteenth century are examined in the context of the cultural changes which shaped the humanistic age.

NOTE: Students who have received credit for MHIS 311 or 312 may not take this course for credit.

MHIS 302 Music of the Baroque (3 credits)

Prerequisite: MHIS 200; INMS 209, 251, 252.

Representative works from the early seventeenth to the mid-eighteenth century. The evolution of "common practice" is traced in the forms, styles, and performance practices of the great masters and schools.

MHIS 303 Classical and Early Romantic Music (3 credits)

Prerequisite: MHIS 200; INMS 209, 251, 252.

A study of late eighteenth- and early nineteenth-century music. Representative works will be studied from the late Rococo, through the age of Haydn, Mozart, and Beethoven, and into the early Romantic style of Schubert.

MHIS 304 *Romanticism in Music*
(3 credits)

Prerequisite: MHIS 200; INMS 209, 251, 252.

A study of the music of the nineteenth and early twentieth century. Representative works, styles and performance practices are studied as expressions of the romantic consciousness.

MHIS 305 *Music from the Post-Romantic to the Present* (3 credits)

Prerequisite: MHIS 200; INMS 209, 251, 252. A study of music from the early twentieth century to the present. The roots of current trends in music are followed through their growth into the widely diverse styles of today.

MHIS 312 *The Ellington Era* (3 credits)

Prerequisite: MHIS 314. The study of the life and music of Edward Kennedy Duke Ellington.

NOTE: Students who have received credit for this topic under an MHIS 498 number may not take this course for credit.

MHIS 313 *American Popular Song*
(3 credits)

Prerequisite: MHIS 314. A survey of the composers, lyricists, and performers of American popular song from 1900 to 1950 through the study of works by masters of the genre such as Gershwin, Porter, Berlin, and Arlen.

NOTE: Students who have received credit for this topic under an MHIS 498 number may not take this course for credit.

MHIS 314 *Jazz History* (3 credits)

Prerequisite: MHIS 200. A study of the historical developments and the personalities that contributed to the evolution of jazz styles.

MHIS 315 *Women in Music History*
(3 credits)

Prerequisite: Second-year standing* or written permission of the Department of Music. A study of women's contribution to music and the perception of women's roles in music history. This course explores both the historic and current situation of women in music through discussion of women's participation in musical life and the ways women are depicted in music. Topics are not limited to the Western art tradition only, but range widely through other cultures, raising issues such as ritual and lament, spirituality, power, and social class. Readings, listening, guests, and the student's own experiences complement the lectures and discussions.

NOTE: Students who have received credit for this topic under an MHIS 498 number may not take this course for credit.

**66 or fewer credits remaining in degree program.*

MHIS 316 *The Modern Jazz Orchestra*
(3 credits)

Prerequisite: MHIS 314. A survey of big band jazz music from 1943 to the present, beginning with Duke Ellington's epic composition "Black, Brown and Beige."

NOTE: Students who have received credit for this topic under an MHIS 498 number may not take this course for credit.

MHIS 317 *The Music of Charles Mingus*
(3 credits)

Prerequisite: MHIS 314. The study of the life and music of Charles Mingus.

NOTE: Students who have received credit for this topic under an MHIS 498 number may not take this course for credit.

MHIS 398 *Special Topics in Music History*
(3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in music history.

MHIS 471* *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department of Music. A student-designed course of study that focuses on an approved area(s) of music history and/or related disciplines, and involves consultation with an advisor.

NOTE C/See \$200.3

**Students may count a maximum of nine credits in independent studies towards their degree program.*

MHIS 472* *Independent Study II* (3 credits)

Prerequisite: Written permission of the Department of Music. A student repeating MHIS 471 registers for MHIS 472 for credit.

**Students may count a maximum of nine credits in independent studies towards their degree program.*

MHIS 498 *Special Topics in Music History*
(3 credits)

Prerequisite: Twelve credits in Music and written permission of the Department of Music. A study of a selected period, area, or contribution. In a given year, the study may examine any significant aspect of Western, non-Western, or other musics.

NOTE C/See \$200.3

Music Performance Studies:

MPER 201 *Orchestra I* (3 credits)

Students enrolled in this course participate in the Concordia Orchestra.

NOTE: This is a full-year course.

MPER 231 *Choir I* (3 credits)

Students enrolled in this course participate in a Concordia choir.

NOTE A/See \$200.3

NOTE: This is a full-year course.

NOTE: Students who have received credit for MPER 221 may not take this course for credit.

MPER 298 *Special Topics in Music Performance* (3 credits)

Prerequisite: Written permission of the Depart-

ment of Music. A study of a selected area not available in other courses in music performance.

MPER 301 Orchestra II (3 credits)

Prerequisite: MPER 201. A continuation of MPER 201. *NOTE A/See §200.3*

NOTE: This is a full-year course.

NOTE: Students who have received credit for this course as MPER 498 or MPER 300 may not take this course for credit.

MPER 321 Chamber Ensemble I (3 credits)

A study, through performance, of selected works from a broad range of repertoires. The works studied are determined by class needs and the particular skills of each student. Participation in public performances is required.

NOTE A/See §200.3

NOTE: This is a full-year course.

MPER 322 Chamber Ensemble II (3 credits)

Prerequisite: MPER 321. A continuation of MPER 321. *NOTE A/See §200.3*

NOTE: This is a full-year course.

MPER 331 Classical Vocal Repertoire I
(3 credits)

Prerequisite: MUSI 200; MUSI 231 in voice previously or concurrently. A chronological study of the repertoire available to the solo singer. Vocal repertoire from the late Renaissance to the present is examined and performed by students. This seminar/workshop is based on a bibliography of selected readings, covering such topics as stylistic features, treatment of poetry and text, recital preparation, programming, vocal ornamentation, and recitative.

NOTE: This is a full-year course.

NOTE: Students who have received credit for this topic under an MPER 498 number may not take this course for credit.

MPER 332 Choir II (3 credits)

Prerequisite: MPER 231. A continuation of MPER 231. *NOTE A/See §200.3*

NOTE: This is a full-year course.

NOTE: Students who have received credit for this course as MPER 498 or MPER 420 may not take this course for credit.

MPER 370 Musical Performance Skills I
(6 credits)

Prerequisite: MUSI 200; INMS 209. A seminar/workshop on specific problems in learning, teaching, and developing musical performance skills. Included is the analysis and organization of practice technique, reading, memory, performance practices, style, interpretation, accompaniment, and recital preparation. Particular attention is given to the integration of skill with musical understanding. *NOTE A/See §200.3*

MPER 390 Advanced Private Study I
(6 credits)

Prerequisite: MUSI 230 or MUSI 231 and 232; enrolment in the Specialization in Music Perfor-

mance Studies; written permission of the Department of Music. This course offers intensive vocal or instrumental instruction for students specializing in performance. A juried examination is required. *NOTE A/See §200.3*

NOTE: Students are required to bear part of the cost of private lessons.

NOTE: Students who have received credit for MUSI 330 may not take this course for credit.

MPER 398 Special Topics in Music Performance (3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in music performance.

MPER 399 Special Topics in Music Performance (6 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in music performance.

MPER 401 Orchestra III (3 credits)

Prerequisite: MPER 301. A continuation of MPER 301. *NOTE A/See §200.3*

NOTE: This is a full-year course.

NOTE: Students who have received credit for this course as MPER 498 or MPER 400 may not take this course for credit.

MPER 421 Chamber Ensemble III (3 credits)

Prerequisite: MPER 322. A continuation of MPER 322. *NOTE A/See §200.3*

NOTE: This is a full-year course.

MPER 422 Chamber Ensemble IV (3 credits)

Prerequisite: MPER 421. A continuation of MPER 421. *NOTE A/See §200.3*

NOTE: This is a full-year course.

MPER 431 Classical Vocal Repertoire II
(3 credits)

Prerequisite: MPER 331. A continuation of MPER 331.

NOTE: This is a full-year course.

NOTE: Students who have received credit for this topic under an MPER 498 number may not take this course for credit.

MPER 432 Choir III (3 credits)

Prerequisite: MPER 331. A continuation of MPER 331. *NOTE A/See §200.3*

NOTE: This is a full-year course.

NOTE: Students who have received credit for this course as MPER 498 or MPER 420 may not take this course for credit.

MPER 441 Performance Practice/Documentation (3 credits)

Prerequisite: Written permission of the Department of Music. A study of historical sources applied directly to performance. Topics covered include ornamentation, improvisation, figured bass, "The Doctrine of the Affections", early notation, and bibliography.

MPER 442 *Performance Practice/Documentation* (3 credits)

Prerequisite: MPER 441. A continuation of MPER 441.

MPER 470 *Musical Performance Skills II* (6 credits)

Prerequisite: MPER 370. A continuation of MPER 370. *NOTE A/See §200.3*

MPER 471* *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department of Music. A student-designed course of study that focuses on an approved area(s) of performance practice, performance theory/analysis, pedagogy, and/or related disciplines, and involves consultation with an advisor. When appropriate, the study may include a demonstration/performance. *NOTE C/See §200.3*

**Students may count a maximum of nine credits in independent studies towards their degree program.*

MPER 472* *Independent Study II* (3 credits)

Prerequisite: Written permission of the Department of Music. A student repeating MPER 471 registers for MPER 472 for credit.

**Students may count a maximum of nine credits in independent studies towards their degree program.*

MPER 490 *Advanced Private Study II* (6 credits)

Prerequisite: MUSI 330, or MUSI 331 and 332, or MPER 390; enrolment in the Specialization in Music Performance Studies; third-year standing*; written permission of the Department of Music. A continuation of MPER 390. An approved public recital may be substituted for the juried examination.

NOTE A/See §200.3

NOTE: Students are required to bear part of the cost of private lessons.

**33 or fewer credits remaining in degree program.*

MPER 498 *Special Topics in Music Performance* (3 credits)

Prerequisite: Written permission of the Department of Music. A seminar/workshop in performance. Selected problems in the development of performance skills. The areas covered are, **whenever possible, determined by the specific interests of the students.** Topics in any given year may include technique, practice, style, interpretation, accompaniment, ensemble, teaching children, the adult student.

NOTE A,C/See §200.3

MPER 499 *Special Topics in Music Performance* (6 credits)

Prerequisite: Written permission of the Department of Music. A seminar/workshop in performance. Selected problems in the development of performance skills. The areas covered are, **whenever possible, determined by the specific interests of the students.** Topics, in any given

year, may include technique, practice, style, interpretation, accompaniment, ensemble, teaching children, the adult student.

NOTE A,C/See §200.3

Music:

MUSI 200 *Music Literacy and Keyboard Skills* (6 credits)

An intensive introductory course in basic musical materials, with integrated practice in aural training and keyboard skills.

NOTE: Students in a Major, Minor, or Specialization program in the Department of Music (excluding the Major and Minor in Electroacoustic Studies) may not take this course for credit.

NOTE: Students who have received credit for this topic under INMS 499 may not take this course for credit.

MUSI 223 *Understanding Music* (3 credits)

A course in analytical listening for the student who has little or no musical background. The works studied represent the major styles and idioms of Western music. *NOTE A/See §200.3*

NOTE: Students in a Major, Minor, or Specialization program in the Department of Music may not take this course for credit towards their degrees.

NOTE: Students are limited to a maximum of 18 credits in Private Study.

MUSI 230 *Private Study I* (6 credits)

Prerequisite: Written permission of the Department of Music. This course offers individual vocal or instrumental instruction in an approved area of music coordinated with the student's program. *NOTE A/See §200.3*

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

MUSI 231 *Private Study Ia* (3 credits)

Prerequisite: Written permission of the Department of Music. This course offers individual vocal or instrumental instruction in an approved area of music coordinated with the student's program.

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

MUSI 232 *Private Study Ib* (3 credits)

Prerequisite: MUSI 231 and written permission of the Department of Music. A continuation of MUSI 231.

MUSI 265 *Rock and Roll and Its Roots* (3 credits)

A study of the history, traditions, styles, and musical trends of rock and roll.

NOTE: Students in the Major or Minor in Integrative Music Studies or Specialization programs

in the Department of Music may not apply this course for credit in a 90-credit degree program.
NOTE: Students who have received credit for this topic under an MUSI 398 number may not take this course for credit.

MUSI 298 *Special Topics in Music*
(3 credits)

Prerequisite: Written permission of the Department of Music. A study of a selected area not available in other courses in music.

MUSI 330 *Private Study II* (6 credits)

Prerequisite: MUSI 230 or 231 or 232; second-year standing*; written permission of the Department of Music. A continuation of MUSI 230.

NOTE A/See §200.3

NOTE: Students enrolled in the Specialization in Music Performance Studies register in MPER 390.

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

**66 or fewer credits remaining in degree program.*

MUSI 331 *Private Study IIa* (3 credits)

Prerequisite: MUSI 230 or MUSI 231 and 232; second-year standing*; written permission of the Department of Music. A continuation of MUSI 232.

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

**66 or fewer credits remaining in degree program.*

MUSI 332 *Private Study IIb* (3 credits)

Prerequisite: MUSI 331 and written permission of the Department of Music. A continuation of MUSI 331.

MUSI 398 *Special Topics in Music*
(3 credits)

Prerequisite: Written permission of the Department of Music. A seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of music outside the scope of existing courses.

MUSI 399 *Special Topics in Music*
(6 credits)

Prerequisite: Written permission of the Department of Music. A seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of music outside the scope of existing courses.

MUSI 430 *Private Study III* (6 credits)

Prerequisite: MUSI 330 or 331 or 332; third-year standing*; written permission of the Department of Music. A continuation of MUSI 330.

NOTE A/See §200.3

NOTE: Students enrolled in the Specialization

in Music Performance Studies register in MPER 490.

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

**33 or fewer credits remaining in degree program.*

MUSI 431 *Private Study IIIa* (3 credits)

Prerequisite: MUSI 330 or MUSI 331 and 332; third-year standing*; written permission of the Department of Music. A continuation of MUSI 332.

NOTE: Students are required to assume part of the cost of private lessons.

NOTE: Upon the recommendation of the individual instructor, public performance may be required as part of the course.

**33 or fewer credits remaining in degree program.*

MUSI 432 *Private Study IIIb* (3 credits)

Prerequisite: MUSI 431 and written permission of the Department of Music. A continuation of MUSI 431.

MUSI 491 *Special Project in Music*
(3 credits)

Prerequisite: Written permission of the Department of Music. This course affords an opportunity for extensive development of a project under the direction of a Faculty member. Students submit a project proposal in accordance with the regulations for admission to the Specialization.

NOTE: Students repeating MUSI 491 register for MUSI 492 for credit provided the subject matter is different.

NOTE: If the special project is within the realm of performance, the student is required to participate in public performances.

MUSI 492 *Special Project in Music*
(3 credits)

Prerequisite: MUSI 491. A continuation of MUSI 491.

NOTE: If the special project is within the realm of performance, the student is required to participate in public performances.

MUSI 498 *Special Topics in Music*
(3 credits)

Prerequisite: Written permission of the Department of Music. An advanced seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of music outside the scope of existing courses.

MUSI 499 *Special Topics in Music*
(6 credits)

Prerequisite: Written permission of the Department of Music. An advanced seminar/workshop in an area of music which provides an opportunity for the study of specialized aspects of music outside the scope of existing courses.

81.110

STUDIO ARTS

Faculty	Chair T.B.A.	GENEVIÈVE CADIEUX THÉRÈSE CHABOT TIM CLARK DAVID ELLIOTT EVERGON JUDY GARFIN LYNN HUGHES DANICA JOJICH CHERYL KOLAK DUDEK WOLFGANG KROL LEILA SUJIR JANET WERNER
	Professors ANDREW DUTKEWYCH TREVOR GOULD BARBARA LAYNE FRANÇOIS MORELLI LEOPOLD PLOTEK MARION WAGSCHAL	
	Associate Professors GISELE AMANTEA RAYMONDE APRIL INGRID BACHMANN SHAWN BAILEY YVES BILODEAU ELEANOR BOND	Assistant Professors ELIZA GRIFFITHS ERIN MANNING MARISA PORTOLESE
Location	Sir George Williams Campus Visual Arts Building, Room: VA 250-2 514-848-2424 ext. 4262/4263	
Department Objectives	The Department of Studio Arts offers programs that emphasize the importance of practical work with practising artists. Through a series of courses in ceramics, drawing, fibres, intermedia/cyberarts, painting, photography, print media, and sculpture, students increase their awareness of what constitutes creativity and understanding of the aesthetic and intellectual aspects of art today.	
Students are responsible for fulfilling their particular degree requirements; hence, the following sequences must be read in conjunction with §81.20. The superscript indicates credit value.		
81.110.1	STUDIO ART	
Program Objective	The Major in Studio Arts offers students the freedom for exploration while still developing proficiency within a disciplinary core. The program encourages the cross-referencing of different creative traditions within a solid, historical, theoretical and studio foundation. Its primary objective is to give students the choice to define their own needs in tailoring an individualized program of studies within open parameters. Students are encouraged to choose among a series of studio art electives and progressively establish their concentration or concentrations through required higher-level disciplinary courses. While promoting a respect for disciplines, the program stresses diversity and versatility across studio options. Students may select their 48 studio art credits required in any media. There is also a similar range from which students can select 12 credits in Art History. Within these specifications, students may fulfil the requirements of the Major in Studio Art either by specializing in a medium or combining studios in a number of them. However, students must complete one studio course at the 300 level (intermediate) and meet the 400 level (advanced) in the same discipline to fulfil their requirements.	
Program	<div>60 BFA Major in Studio Art</div> <div><div>6</div>Chosen from ARTX 280⁶ or Studio Art electives, in consultation with an advisor</div> <div><div>6</div>Chosen from Art History electives; ARTT electives; ARTT 261⁶, 460⁶; or SCUL 465⁶</div> <div><div>6</div>DRAW 200⁶</div> <div><div>6</div>Art History electives</div> <div><div>24</div>Studio Art electives*</div> <div><div>12</div>Chosen from 300⁶- and 400⁶-level courses in a single medium from one of the following disciplines: Ceramics; Drawing; Fibres; Painting; Print Media; Sculpture.</div> <div><i>*Studio Art courses offered by the Department of Design and Computation Arts and the Department of Art Education may be selected as Studio Art electives, but these credits do not satisfy the 300- and 400-level sequence requirements.</i></div>	

<i>Admission to the Major in Studio Art</i>	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Studio Art. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
81.110.2	CERAMICS
<i>Program Objective</i>	<p>The Ceramics program offers students a unique opportunity to develop individual studio work in a context that links contemporary art practice to a rich and diverse material history. A vital program within the Studio Arts Department, courses in Ceramics regularly include special collaborative projects, field trips and visiting artists. In addition, the Ceramics program provides students with an important point of departure for investigating diverse subjects ranging from traditional craft practice to new technologies. Well-equipped studios and scheduled labs afford students the means to develop technical skills and to seek information specific to their needs. Course content at all levels of the program includes seminar discussion pertinent to both students' work and to the current practice of ceramics. At an advanced level and in consultation with an advisor, students in Ceramics have the opportunity to pursue independent-study courses.</p>
<i>Program</i>	<p>60 BFA Major in Ceramics</p> <p>30 CERA 230⁶, 330⁶, 430⁶; SCUL 465⁶; DRAW 200⁶</p> <p>6 ARTH 264³, 350³</p> <p>6 Chosen from Art History electives; ARTT electives; ARTT 261⁶ or 460⁶</p> <p>6 SCUL 210⁶; FBRS 240⁶, 260⁶, 370⁶</p> <p>6 Electives from Ceramics, Fibres, or Sculpture</p> <p>6 Chosen from ARTX 280⁶ or Studio Art electives, in consultation with an advisor*</p> <p><i>*Recommended to be taken in the first year.</i></p>
<i>Admission to the Major in Ceramics</i>	<p>Applicants to Ceramics may apply to enter directly into the Major in Ceramics, or enter the Major in Studio Art with the intention of transferring upon completion of the first year.</p> <p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Ceramics. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
81.110.3	FIBRES
<i>Program Objective</i>	<p>Fibres is a cross-media program of study that explores the relationship of materials to culture. Informed by discourses of post-modernism, feminism, and traditional aesthetics, the Fibres program offers an opportunity for intensive study, both practical and theoretical, of the art, technology and history of textiles. Such creative and critical investigation, allied with technical proficiency, provides the base students need to develop as young artists.</p> <p>Courses are available at all levels, ranging from beginner classes to independent study for advanced students wishing to focus on a single project. Students concentrating in other areas of Fine Arts are welcome to take most courses offered in the Fibres area.</p>
<i>Program</i>	<p>60 BFA Major in Fibres</p> <p>12 FBRS 240⁶, 260⁶</p> <p>6 FBRS 340⁶ or 360⁶</p> <p>6 FBRS 480⁶</p> <p>6 ARTH 266³, 352³</p> <p>6 Chosen from Art History electives</p> <p>18 Chosen from Studio Art electives in consultation with an advisor</p> <p>6 Electives from Ceramics, Fibres, Sculpture or Drawing</p>
<i>Admission to the Major in Fibres</i>	<p>Applicants to Fibres may apply to enter directly into the Major in Fibres, or enter the Major in Studio Art with the intention of transferring upon completion of the first year.</p> <p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Fibres. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>

81.110.4	INTERMEDIA/CYBERARTS
Program Objective	<p>The Intermedia/Cyberarts program offers a rich curriculum that encourages an intermedia cross-pollination between traditional disciplines and new forms of artistic expression using technology and integrated media practices. Students choose from courses in electronic arts, performance art, and video, focusing on one of these streams or selectively combining areas of study in conjunction with other Studio Arts or Faculty of Fine Arts courses. The program provides a learning environment where students can study different combinations of electronics-robotics-programming, video, performance art, immersive environments, and sound art production.</p>
Program	<p>60 BFA Major in Intermedia/Cyberarts</p> <p>12 Chosen from IMCA 210³, 220³, 221³, 222³, 230³; SCUL 251³; EAMT 298³</p> <p>12 Chosen from IMCA 310⁶, 320⁶, 330⁶, 399⁶, 398³, 399⁶</p> <p>6 Chosen from IMCA 410⁶, 420⁶, 421⁶, 430⁶, 498³, 499⁶, 470⁶, 471³, 472³, 480⁶, 481³, 482³</p> <p>12 Studio Art electives</p> <p>6 Chosen from Fine Arts electives outside of Studio Art*</p> <p>9 Chosen from ARTH, ARTT, VDEO 350⁶</p> <p>3 ARTH 353³</p> <p>* It is recommended that IMCA students take three credits of CART course offerings in consultation with an advisor.</p>
Admission to the Major in Intermedia/Cyberarts	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Intermedia/Cyberarts. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
81.110.5	PAINTING AND DRAWING
Program Objective	<p>The Department of Studio Arts provides an in-depth program in Painting and Drawing, combining theoretical, historical, and practical study at all undergraduate levels. The aim is to provide students with a broad foundation on which they can base their own creative contributions.</p> <p>Studio courses, seminars, and independent projects on such varied topics as collage, pictorial installation, popular culture, and narration supplement the core courses on painting and drawing. Recognizing the importance of providing basic skills and knowledge, in an atmosphere of freedom, the program is supported by a large number of faculty and guest artists, exposing students to a full range of approaches to drawing and painting.</p> <p>A graduate program in Painting and Drawing is available for further studies.</p>
Program	<p>60 BFA Major in Painting and Drawing</p> <p>12 DRAW 200⁶, 300⁶, 399⁶</p> <p>12 PTNG 200⁶, 300⁶, 399⁶</p> <p>6 400-level DRAW or PTNG</p> <p>18 Studio Art electives</p> <p>12 ARTH or ARTT in consultation with an advisor</p>
Admission to the Major in Painting and Drawing	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major in Painting and Drawing. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
81.110.6	PHOTOGRAPHY
Program Objective	<p>The Photography program acknowledges photography as a discipline with a distinct artistic and historical identity. It also recognizes that contemporary photographic practice encompasses a rich multiplicity of formal and conceptual approaches. The course structure of the program and the orientation of its faculty reflect a concern that the students receive a strong historical and theoretical comprehension of the medium. The program stresses the need for students to acquire the concepts and vocabulary necessary for critical discussion of their own photographic work and that of others. Emphasis is placed on the understanding of photography's sociological and artistic ramifications.</p>

Programs	<p>60 BFA Major in Photography 36 PHOT 210⁶, 211³, 250⁶, 300⁶, 311³, 331³, 341³, 400⁶ 6 Photography electives 6 Art History electives 12 Visual Arts electives</p> <p>30 Minor in Photography 15 PHOT 210⁶, 211³, 250⁶ 9 Chosen from PHOT 300⁶, 301³, 311³, 312³, 331³, 332³, 341³, 398³, 399⁶, 498³ 6 Photography or Visual Arts electives</p>
Admission to the Major or Minor in Photography	<p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major or Minor in Photography. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process. For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
<p>81.110.7</p> <p>Program Objective</p>	<p>PRINT MEDIA</p> <p>The Print Media program provides students with a milieu to investigate the meaningful relationships that exist between the technologies of reproduction, individual expression, and contemporary society. Print Media offers multiple venues for student research from intaglio, lithography, and serigraphy to digital and virtual approaches. Experimental, innovative, and critical work is encouraged. Special topics and theory courses provide support for individual aesthetic development and explore the intersections of interdisciplinary practice.</p> <p>Students in the Print Media program are expected to develop a strong critical understanding of their work and its relationship to contemporary society, as well as develop professional skills and an awareness of the diversity inherent in art practice.</p>
<p>Programs</p>	<p><i>The 60-credit BFA Major in Print Media and the 30-credit Minor in Print Media were first offered in their new form in September 1997.</i></p> <p>60 BFA Major in Print Media 36 Print Media: 6–12 Credits at the 200 level 12–24 Credits at the 300 level 6–18 Credits at the 400 level 6 Studio Art elective credits 6 Fine Arts elective credits 6 Art History elective credits 6 Art History or Art Theory elective credits</p> <p>30 Minor in Print Media 18 Print Media: 3–9 Credits at the 200 level 6–9 Credits at the 300 level 3–9 Credits at the 400 level 6 Studio Art elective credits 6 Fine Arts elective credits</p>
Admission to the Major or Minor in Print Media	<p>Applicants to Print Media may apply to enter directly into the Major in Print Media or may enter the Major in Studio Art with the intention of transferring upon completion of the first year. In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to the Major or Minor in Print Media. All applicants must submit a <i>portfolio</i>, as well as a <i>letter of intent</i>, as part of the admission process. For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>
<p>81.110.8</p> <p>Program Objective</p>	<p>SCULPTURE</p> <p>The Sculpture program incorporates contemporary genres with divergent approaches to the discipline, ranging from performance to video installation, built environments, and 3D-digital applications, on to convergences of these ideas to the notion of intervention practices. Within the Fine Arts curriculum, these courses offer the opportunity for intensive study in both practical and theoretical contexts</p>

encouraging students to explore the relationships between object, material, body, and space. Such creative investigation, allied with technical proficiency, provides the base for students to develop an understanding of a broad range of sculptural issues. Courses are available at all levels, including independent study for advanced students wishing to focus on a single topic or project. To enrich their artistic training, students concentrating in other areas of Fine Arts may also take most courses offered in sculpture.

<p><i>Program</i></p>	<p>60 BFA Major in Sculpture</p> <p>24 SCUL 210⁶, 310⁶, 410⁶, DRAW 200⁶</p> <p>6 ARTX 480 or 400-level Studio Art elective</p> <p>18 Studio Art electives</p> <p>12 Chosen from ARTH or ARTT, in consultation with an advisor</p>		
<p><i>Admission to the Major in Sculpture</i></p>	<p>Applicants to Sculpture may apply to enter directly into the Major in Sculpture, or enter the Major in Studio Art with the intention of transferring upon completion of the first year.</p> <p>In addition to the normal admission procedure of Concordia University, there is a distinct admission procedure for applicants to Sculpture. All applicants must submit a <i>portfolio</i> of their own work, as well as a <i>letter of intent</i>, as part of the admission process.</p> <p>For more information concerning these additional requirements and submission deadline dates, please visit the following website: http://fofa.concordia.ca/portfolioaudition.</p>		
<p><i>Courses</i></p>	<table border="0"> <tr> <td data-bbox="477 701 922 1856"> <p>Art Studio:</p> <p>ARTX 280 Integrated Studio in Contemporary Art Practices I (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course designed to familiarize students with contemporary art practice and theory in its diverse manifestations. The course questions the boundaries of traditional art disciplines and engages the creative potential of transdisciplinary studio practice with a range of projects that explore, among other things, gesture, mapping, mark-making and time-based image and sound, as well as performative and environmental installation.</p> <p><i>NOTE: Students who have received credit for ARTX 250, 260 or 270 may not take this course for credit.</i></p> <p>ARTX 398 Special Topics in Contemporary Studio Arts Practice (3 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p> <p>ARTX 399 Special Topics in Contemporary Studio Arts Practice (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p> </td><td data-bbox="922 701 1378 1856"> <p>ARTX 480 Advanced Integrated Studio in Contemporary Art Practices (6 credits)</p> <p>Prerequisite: 300-level studio course previously and enrolment in a program offered by the Department of Studio Arts, or written permission of the Department. This course is structured to support advanced students in the development of a mature and self-directed body of work within a transdisciplinary framework.</p> <p>ARTX 490 Independent Study (6 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>ARTX 491 Independent Study I (3 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project. <i>NOTE C/See §200.3</i></p> <p>ARTX 492 Independent Study II (3 credits)</p> <p>Prerequisite: ARTX 491 and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>Art Theory:</p> <p>ARTT 261 Aesthetic Inquiry in Visual Arts (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A seminar addressing the principles and theories relating to the objects and events of visual arts. Topics include the artistic process as expression, intuition, and imagination. Further consideration is given to the products of painting, sculpture,</p> </td></tr> </table>	<p>Art Studio:</p> <p>ARTX 280 Integrated Studio in Contemporary Art Practices I (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course designed to familiarize students with contemporary art practice and theory in its diverse manifestations. The course questions the boundaries of traditional art disciplines and engages the creative potential of transdisciplinary studio practice with a range of projects that explore, among other things, gesture, mapping, mark-making and time-based image and sound, as well as performative and environmental installation.</p> <p><i>NOTE: Students who have received credit for ARTX 250, 260 or 270 may not take this course for credit.</i></p> <p>ARTX 398 Special Topics in Contemporary Studio Arts Practice (3 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p> <p>ARTX 399 Special Topics in Contemporary Studio Arts Practice (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p>	<p>ARTX 480 Advanced Integrated Studio in Contemporary Art Practices (6 credits)</p> <p>Prerequisite: 300-level studio course previously and enrolment in a program offered by the Department of Studio Arts, or written permission of the Department. This course is structured to support advanced students in the development of a mature and self-directed body of work within a transdisciplinary framework.</p> <p>ARTX 490 Independent Study (6 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>ARTX 491 Independent Study I (3 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project. <i>NOTE C/See §200.3</i></p> <p>ARTX 492 Independent Study II (3 credits)</p> <p>Prerequisite: ARTX 491 and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>Art Theory:</p> <p>ARTT 261 Aesthetic Inquiry in Visual Arts (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A seminar addressing the principles and theories relating to the objects and events of visual arts. Topics include the artistic process as expression, intuition, and imagination. Further consideration is given to the products of painting, sculpture,</p>
<p>Art Studio:</p> <p>ARTX 280 Integrated Studio in Contemporary Art Practices I (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course designed to familiarize students with contemporary art practice and theory in its diverse manifestations. The course questions the boundaries of traditional art disciplines and engages the creative potential of transdisciplinary studio practice with a range of projects that explore, among other things, gesture, mapping, mark-making and time-based image and sound, as well as performative and environmental installation.</p> <p><i>NOTE: Students who have received credit for ARTX 250, 260 or 270 may not take this course for credit.</i></p> <p>ARTX 398 Special Topics in Contemporary Studio Arts Practice (3 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p> <p>ARTX 399 Special Topics in Contemporary Studio Arts Practice (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course brings together students with a practice based in any of the studio disciplines, and/or who have been following an interdisciplinary practice, allowing discussion and exchange on their work in relation to the aspect of art making that this special topic addresses.</p>	<p>ARTX 480 Advanced Integrated Studio in Contemporary Art Practices (6 credits)</p> <p>Prerequisite: 300-level studio course previously and enrolment in a program offered by the Department of Studio Arts, or written permission of the Department. This course is structured to support advanced students in the development of a mature and self-directed body of work within a transdisciplinary framework.</p> <p>ARTX 490 Independent Study (6 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>ARTX 491 Independent Study I (3 credits)</p> <p>Prerequisite: 48 credits completed in degree requirement and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project. <i>NOTE C/See §200.3</i></p> <p>ARTX 492 Independent Study II (3 credits)</p> <p>Prerequisite: ARTX 491 and written permission of the ARTX coordinator. A course of independent study in which the student explores a specific interdisciplinary project.</p> <p>Art Theory:</p> <p>ARTT 261 Aesthetic Inquiry in Visual Arts (6 credits)</p> <p>Prerequisite: Enrolment in a BFA program or written permission of the Department. A seminar addressing the principles and theories relating to the objects and events of visual arts. Topics include the artistic process as expression, intuition, and imagination. Further consideration is given to the products of painting, sculpture,</p>		

and graphics, emphasizing various contemporary critical and theoretical stances.

NOTE A/See §200.3

ARTT 398 *Special Topics in Studio Arts: Ideas and Issues* (3 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. This seminar course provides the opportunity for students of various studio practices to discuss changing issues in theory/practice. Visual material, directed readings, exhibition visits, and invited speakers will be determined by the special topic.

ARTT 399 *Special Topics in Studio Arts: Ideas and Issues* (6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. This seminar course provides the opportunity for students of various studio practices to discuss changing issues in theory/practice. Visual material, directed readings, exhibition visits, and invited speakers will be determined by the special topic.

ARTT 460 *Analysis of Great Works of Art* (6 credits)

A course in art principles. Through the formal analysis of selected masterpieces of painting and sculpture, the student is led to a fuller comprehension of the nature of formal order in the arts. *NOTE A/See §200.3*

Ceramics:

CERA 230 *Ceramics I* (6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introduction to clay as an art medium employing the various techniques of forming, shaping, and decorating for firing and glazing. *NOTE A/See §200.3*

CERA 330 *Ceramics II* (6 credits)

Prerequisite: CERA 230 or permission of the coordinator. An advanced course in technical and historical research in various ceramic processes with an emphasis on glazes and the use of different clay bodies. *NOTE A/See §200.3*

CERA 398 *Special Topics in Ceramics* (3 credits)

A workshop/seminar, providing an opportunity for the study of specialized aspects of ceramics. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CERA 399 *Special Topics in Ceramics* (6 credits)

Prerequisite: Written permission of the Department. A workshop/seminar course providing an opportunity for the study of specialized aspects in ceramics. *NOTE C/See §200.3*

CERA 430 *Ceramics III* (6 credits)

Prerequisite: CERA 330 or permission of the coordinator. The development of a body of

personal work and a refinement of specific problems in clay.

CERA 450 *Independent Study* (6 credits)

Prerequisite: 48 credits in the Major in Ceramics; CERA 430 previously or concurrently; and written permission of the Department. This workshop provides the opportunity for a limited number of students to independently pursue advanced studies in ceramics.

CERA 499 *Special Topics in Ceramics* (6 credits)

An advanced studio course which provides an opportunity for the study of more specialized aspects of ceramics. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Drawing:

DRAW 200 *Drawing I* (6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An exploration of drawing as a means of expression. Various media are employed to examine and express form, space, figurative, and other graphic images. Drawing from observation, imagination, and memory is included. *NOTE A/See §200.3*

DRAW 300 *Drawing II* (6 credits)

Prerequisite: DRAW 200. A drawing course in which various media and forms of expression are explored at the more advanced level. Lectures and studio periods. *NOTE A/See §200.3*

DRAW 398 *Special Topics in Drawing* (3 credits)

Prerequisite: DRAW 200. A studio course which provides an opportunity for the study of more specialized aspects of drawing. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

DRAW 399 *Special Topics in Drawing* (6 credits)

Prerequisite: DRAW 200; written permission of the Department. A studio course which provides an opportunity for the study of more specialized aspects of drawing.

DRAW 400 *Drawing III* (6 credits)

Prerequisite: DRAW 300. Continuation of DRAW 300. *NOTE A/See §200.3*

DRAW 420 *Seminar/Workshop in Drawing* (6 credits)

Prerequisite: PTNG 320 or written permission of the Department. An advanced studio in drawing having its principal emphasis in studio practice, but developing further the theoretical concepts introduced in PTNG 320.

NOTE: Students who have received credit for ART 320 may not take this course for credit.

DRAW 450 *Advanced Studio in Drawing*
(6 credits)

Prerequisite: DRAW 400. A continuation of DRAW 400.

DRAW 470 *Independent Study* (6 credits)

Prerequisite: 400-level DRAW previously or concurrently, and written permission of the Department. A course of independent study in which the advanced student explores a specific area of drawing. *NOTE A/See §200.3*

DRAW 498 *Special Topics in Drawing*
(3 credits)

A course for advanced students which provides an opportunity for the study of more specialized areas in drawing. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

DRAW 499 *Special Topics in Drawing*
(6 credits)

A course for advanced students which provides an opportunity for the study of more specialized areas in drawing. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Fibres:

FBRS 240 *Fibre Structures I* (6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introductory course in which students explore the expressive potential of various materials and processes of fibre structures such as loom weaving, feltmaking, basketry, surface applications, and other experimental constructions. *NOTE A/See §200.3*

FBRS 260 *Textile Printing and Dyeing I*
(6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introductory course in which students explore the creative potential of printing, painting, dyeing, resist work, and construction with fabric. *NOTE A/See §200.3*

FBRS 340 *Fibre Structures II* (6 credits)

Prerequisite: FBRS 240 or permission of the coordinator. An intermediate level course which emphasizes the visual and conceptual development of the student in fibre media. Complex woven structures, painting and dyeing, fibre sculpture, and other experimental approaches are explored.

FBRS 360 *Textile Printing and Dyeing II*
(6 credits)

Prerequisite: FBRS 260 or permission of the coordinator. An intermediate level course in textile printing and dyeing with an emphasis on content. Students investigate traditional and non-traditional approaches such as resist work, discharge, and photo processes.

FBRS 370 *Papermaking* (6 credits)

Prerequisite: Eighteen credits in Studio Art, or permission of the coordinator. The making of paper and its use as a medium of expression. The scope of investigation ranges from surface and image to embossing, casting, and three-dimensional construction.

FBRS 398 *Special Topics in Fibres*
(3 credits)

Prerequisite: Written permission of the Department. A workshop/seminar course providing an opportunity for study of specialized aspects of fibres. *NOTE C/See §200.3*

FBRS 399 *Special Topics in Fibres*
(6 credits)

Prerequisite: Written permission of the Department. A workshop/seminar course providing an opportunity for the study of specialized aspects in fibres. *NOTE C/See §200.3*

FBRS 450 *Independent Study* (6 credits)

Prerequisite: 48 credits in the Major in Fibres; FBRS 480 previously or concurrently; and written permission of the Department. This workshop provides the opportunity for a limited number of students to independently pursue advanced studies in Fibres.

FBRS 451 *Independent Study I* (3 credits)

Prerequisite: 48 credits completed in degree program; FBRS 480 previously or concurrently; and written permission of the Department. This course provides the opportunity for a limited number of students to pursue advanced studies in Fibres.

FBRS 452 *Independent Study II* (3 credits)

Prerequisite: FBRS 451 and written permission of the Department. This course provides the opportunity for a limited number of students to pursue advanced studies in Fibres.

FBRS 480 *Advanced Fibres* (6 credits)

Prerequisite: FBRS 340 or 360, or permission of the coordinator. An advanced level course in which students create a personal body of work, refine technical expertise, and develop a visual and critical language related to fibres and textiles. *NOTE C/See §200.3*

Intermedia/Cyberarts:

IMCA 210 *Introduction to Video Production* (3 credits)

Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. A studio/seminar course introducing video technology as a tool for aesthetic investigations. Students work individually and collaboratively to develop a proficiency in the medium and evolve their own thematic and formal concerns. The course introduces basic pre-production, production, and post-production skills centred on the use of Mini-DV cameras and desktop technology to present basic concepts of non-linear editing. Issues specific to video are discussed through

the analysis and demonstration of video art.
NOTE: Students who have received credit for VDEO 300 may not take this course for credit.

IMCA 220 *Introduction to Digital Media*
(3 credits)

Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course is an introduction to the interface between the real world and the digital computer. Students learn how to get things in and out of the box by acquiring the different digitizing techniques as well as the basic communication protocols, compression formats, and numerous standards for text, sound, video, and digital data. They also learn how to create digital artworks using audiovisuals, scanning, printing, and networking.

IMCA 221 *Programming for Artists*
(3 credits)

Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course is an introduction to basic programming techniques used to create interactive art projects. It is centred on learning the basics of popular object-oriented programming environments such as Max and Jitter, currently used for installation and performance works in interactive music, sound art, interactive video, telematic art, robotics, and more. This course allows students to explore non-screen-based approaches to audiovisual control as well as the more traditional keyboard-and-mouse interface.

IMCA 222 *Electronics for Artists* (3 credits)

Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course is an introduction to electronics as applied to artistic projects. It focuses on practical applications of basic electronic principles and techniques and the integration of electronic components and circuits in works of art. From basic electricity to motor control, from flashers and beepers to motion detectors, from analog circuits to digital technologies, it allows students to create artworks involving light, sound, movement, sensors, and interactivity.

NOTE: Students who have received credit for EART 300 may not take this course for credit.

IMCA 230 *Performance Art* (3 credits)

Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course investigates performance art as a form of social and artistic intervention that crosses between the visual and performing arts. Reflecting the long-standing and historical importance of performance practices in the visual arts, students focus on the production of projects that may reflect such issues as real-time, site-specific, interventionist actions, the interrelationship between installations and performances, and the interdisciplinary interface between performance and other practices found in the performing arts. This course also examines video performance and photography as media for generating performative gestures and as documentation tools.

IMCA 310 *Intermediate Video Production*
(6 credits)

Prerequisite: IMCA 210 and VDEO 350 previously or concurrently; or written permission of the Department. A studio/seminar course introducing video technology as a tool for aesthetic investigations. Students work individually and collaboratively to develop proficiency in the medium and evolve their own thematic and formal concerns. Non-linear editing systems such as Avid and Final Cut Pro are introduced. Discussions, facilitated by video screenings, workshops, and readings, focus on class projects, student work, and a discussion of related art issues. In addition, this course offers students an opportunity to investigate other cultural practices that inform and interrogate contemporary video art.

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for VDEO 300 may not take this course for credit.

IMCA 320 *Interactivity Studio in Electronic Arts* (6 credits)

Prerequisite: IMCA 221, 222, and enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course focuses on interactive technologies in relation to contemporary art practice including installation, performance, and kinetic sculpture. An interdisciplinary and cybernetic approach to media control and expression (sound, lighting, still images, video), using computers and electronics is emphasized, allowing students to pursue individual or team work. This course is centred on programming environments such as MaxMSP and Jitter and focuses on interactivity through the use of various sensors and interfaces.

NOTE: Students who have received credit for EART 300 may not take this course for credit.

IMCA 330 *Intermedia and Performative Practices* (6 credits)

Prerequisite: Second-year standing* in the Intermedia/Cyberarts program or written permission of the Department. A studio/seminar class designed as an intermediate-level investigation into an interdisciplinary approach to art practices. The course is structured around students' creation of intermedia art projects with the assistance of the teacher. This development process is further supported by lectures, discussion of assigned readings, guest artists, and the viewing of slides, films, and videos.

NOTE: Students who have received credit for IDYS 200 or 300 may not take this course for credit.

**30 credits completed in degree program.*

IMCA 398 *Special Topics in Intermedia/Cyberarts* (3 credits)

Prerequisite: Second-year standing* in the Intermedia/Cyberarts program or written permission of the Department. A studio course providing an opportunity for study and practice of specialized aspects of intermedia and cyberarts.

NOTE: Specific topics, and additional

prerequisites if required, will be stated in the Undergraduate Class Schedule.

**30 credits completed in degree program.*

IMCA 399 *Special Topics in Intermedia/Cyberarts* (6 credits)

Prerequisite: Second-year standing* in the Intermedia/Cyberarts program or written permission of the Department. A studio course providing and opportunity for study and practice of specialized aspects of intermedia and cyberarts.

NOTE: Specific topics, and additional prerequisites if require, will be stated in the Undergraduate Class Schedule.

**30 credits completed in degree program.*

IMCA 410 *Advanced Video Production* (6 credits)

Prerequisite: IMCA 310 and enrolment in the Intermedia/Cyberarts program or written permission of the Department. A studio/seminar course that permits students to pursue an advanced investigation of the aesthetic and technical aspects of video art practices through the development of their own body of work.

NOTE: Students are required to bear the cost of materials.

NOTE: Students who have received credit for VDEO 400 may not take this course for credit.

IMCA 420 *Robotic Art* (6 credits)

Prerequisite: IMCA 320 and enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course is an introduction to robotics as a technology applied to artistic projects and focuses on electronics, mechanics, and programming. From the history of clockwork automatons to contemporary self-destructing machine performances, this course covers both theory and practice. Students explore the arts of artificial life and animatronics through electronic circuit design, microcontroller programming, mechanical assembly, motion control, environment sensing, pneumatics, stepper motors and servo systems in order to create robotic art objects, installations, or performances.

IMCA 421 *Interactive Screen* (6 credits)

Prerequisite: IMCA 320 and enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course focuses on the conception and production of interactive projects for the screen. Students learn how to structure scenarios for interaction and realize them using relevant software. Group discussion and analysis of the works produced familiarize students with the strengths and weaknesses of using different types of conceptual and programming approaches.

IMCA 430 *Advanced Intermedia and Performative Practices* (6 credits)

Prerequisite: IMCA 330 and enrolment in the Intermedia/Cyberarts program or written permission of the Department. A studio/seminar class designed as an advanced-level investigation into an interdisciplinary approach to art practices.

The course is structured around students' creation of intermedia art projects with the assistance of the teacher. This development process is further supported by lectures, discussion of assigned readings, guest artists, and the viewing of slides, films, and videos. This course allows students to work either collaboratively or individually on one or more directed studio projects.

IMCA 470 *Independent Study in Intermedia/Cyberarts* (6 credits)

Prerequisite: 400-level IMCA previously or concurrently and written permission of the Department. A course of independent study in which the student explores a specific area of intermedia/cyberarts.

IMCA 471 *Independent Study in Intermedia/Cyberarts I* (3 credits)

Prerequisite: 400-level IMCA previously or concurrently and written permission of the Department. A course of independent study in which the student explores a specific area of intermedia and cyberarts.

IMCA 472 *Independent Study in Intermedia/Cyberarts II* (3 credits)

Prerequisite: 400-level IMCA previously or concurrently and written permission of the Department. A course of independent study in which the student explores a specific area of intermedia and cyberarts.

IMCA 480 *Professional Internship in Intermedia/Cyberarts* (6 credits)

Prerequisite: Third-year standing* and written permission of the Department. Under the joint supervision of a qualified professional and a full-time faculty member, the student is employed within industry or by a professional organization or other relevant institution. A clearly defined agreement between the Department, the student, and the artist/professional or institution involved is established before the internship is undertaken. This agreement should clearly state the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate appreciable learning potential for the student.

**60 credits completed in degree program.*

IMCA 481 *Professional Internship in Intermedia/Cyberarts I* (3 credits)

Prerequisite: Third-year standing* and written permission of the Department. Under the joint supervision of a qualified professional and a full-time faculty member, the student is employed within industry or by a professional organization or other relevant institution. A clearly defined agreement between the Department, the student, and the artist/professional or institution involved is established before the internship is undertaken. This agreement should clearly state the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate appreciable learning potential for the student.

**60 credits completed in degree program.*

IMCA 482 *Professional Internship in Inter-media/Cyberarts II* (3 credits)

Prerequisite: Third-year standing* and written permission of the Department. Under the joint supervision of a qualified professional and a full-time faculty member, the student is employed within industry or by a professional organization or other relevant institution. A clearly defined agreement between the Department, the student, and the artist/professional or institution involved is established before the internship is undertaken. This agreement should clearly state the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate appreciable learning potential for the student.

**60 credits completed in degree program.*

IMCA 498 *Special Topics in Intermedia/Cyberarts* (3 credits)

Prerequisite: Third-year standing* in the Intermedia/Cyberarts program or written permission of the Department. A studio course providing an opportunity for study and practice of specialized aspects of intermedia and cyberarts.

**60 credits completed in degree program.*

IMCA 499 *Special Topics in Intermedia/Cyberarts* (6 credits)

Prerequisite: Third-year standing* in the Intermedia/Cyberarts program or written permission of the Department. A studio course providing an opportunity for study and practice of specialized aspects of intermedia and cyberarts.

**60 credits completed in degree program.*

Painting:

PTNG 200 *Painting I* (6 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An exploration of painting, colour, style, image, visual skills, and the technology of painting materials. *NOTE A/See \$200.3*

PTNG 300 *Painting II* (6 credits)

Prerequisite: PTNG 200. A course in which various media and forms of expression are explored at the more advanced level.

NOTE A/See \$200.3

PTNG 320 *Studio/Seminar in Painting and Drawing* (6 credits)

Prerequisite: DRAW 200; PTNG 200; ARTT 261 or written permission of the Department. A combination studio/seminar in which advanced ideas in painting and drawing are addressed. Special topics of approximately one month duration are presented by guest artists from within and outside the Faculty.

PTNG 398 *Special Topics in Painting* (3 credits)

Prerequisite: PTNG 200. A studio course which provides an opportunity for the study of more specialized aspects of painting. Specific topics

for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PTNG 399 *Special Topics in Painting* (6 credits)

Prerequisite: PTNG 200; written permission of the Department. A studio course which provides an opportunity for the study of more specialized aspects of painting.

PTNG 400 *Painting III* (6 credits)

Prerequisite: PTNG 300. A continuation of PTNG 300. *NOTE A/See \$200.3*

PTNG 420 *Seminar/Workshop in Painting* (6 credits)

Prerequisite: PTNG 320 or written permission of the Department. An advanced studio in painting having its principal emphasis in studio practice, but developing further the theoretical concepts introduced in PTNG 320.

NOTE: Students who have received credit for ART 320 may not take this course for credit.

NOTE A/See \$200.3

PTNG 430 *Women and Painting* (6 credits)

Prerequisite: PTNG 200 or written permission of the Department. A studio/seminar course in which students are encouraged to explore their world in painting and consider their practice from the point of view of women's experience, individually and collectively. *NOTE A/See \$200.3*

PTNG 440 *Collage* (6 credits)

Prerequisite: Written permission of the Department. An exploration of collage as a means of expression evolving from the historical and artistic traditions of painting and drawing.

NOTE A/See \$200.3

PTNG 450 *Advanced Studio in Painting* (6 credits)

Prerequisite: PTNG 400. A continuation of PTNG 400. *NOTE A/See \$200.3*

PTNG 460 *Materials and Methods of the Artist* (6 credits)

Prerequisite: DRAW 300; PTNG 300 or written permission of the Department. Through a series of special projects in drawing and painting, this course familiarizes the student with historical materials and techniques, and with other aspects of the artist's concerns.

NOTE: Students who have received credit for ART 420 may not take this course for credit.

PTNG 470 *Independent Study* (6 credits)

Prerequisite: 400-level PTNG previously or concurrently, and written permission of the Department. A course of independent study in which the advanced student explores a specific area in painting. *NOTE A/See \$200.3*

PTNG 498 *Special Topics in Painting* (3 credits)

A course for advanced students which provides an opportunity for the study of more specialized

areas in painting. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PTNG 499 *Special Topics in Painting*
(6 credits)

A course for advanced students which provides an opportunity for the study of more specialized areas in painting. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Photography:

PHOT 201 *Introduction to Colour Photography* (3 credits)

An introductory-level course that covers fundamental techniques specific to colour photography including basic camera functions, film exposure, and printing.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials

NOTE: Students in a Major or Minor in the Photography program may not take this course for credit.

PHOT 210 *Foundations in Photographic Vision Theory and Practice I*
(6 credits)

Prerequisite: Enrolment in the Major or Minor in Photography, or 24 credits in a Specialization/ Major in the Faculty of Fine Arts. In this course, students investigate and examine the numerous aspects of photography's complex history, aesthetics, and processes, as well as different camera and darkroom techniques specific to colour photography. Students learn how to control the camera, expose film properly (transparency and negative), develop good printing skills in colour, and produce a coherent body of work. They should become aware of how colour contributes to the structure and meaning of photographs. Other topics include the history of colour photography and aesthetic and conceptual issues in the work of contemporary photographers. Students are expected to work on technical exercises and produce a final portfolio which is content-driven, demonstrates technical proficiency, and expresses the individual's artistic interest and vision.

NOTE: Students who have received credit for PHOT 200, 221, or 322 may not take this course for credit.

NOTE: Each student's work is evaluated by a jury of Photography faculty at the end of each term.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 211 *Black-and-White Photography I*
(3 credits)

Prerequisite: PHOT 210 and 250 previously or concurrently; enrolment in the Major or Minor in Photography; or written permission of the program director. A studio course introducing the use of black and white as photographic process, parallel to colour production and practice taught in PHOT 210. Students are taught basic technical skills, film processing, darkroom techniques and

printing. Students are also introduced to black-and-white photographic tradition and aesthetics. Students must produce a final portfolio that is content-driven, demonstrates technical proficiency, and expresses personal artistic interests and vision.

NOTE: Students who have received credit for PHOT 200 may not take this course for credit.

NOTE: Each student's work is evaluated by a jury of Photography faculty at the end of the term.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 221 *Colour Photography I* (3 credits)

Prerequisite: PHOT 200 and 250 previously or concurrently; enrolment in the Major or Minor in Photography; or written permission of the program director. In this course, students become aware of how colour contributes to the structure and meaning of photographs. Topics include the history of colour and aesthetic and conceptual issues in the work of contemporary photographers. Students are expected to achieve a basic level of expertise with the techniques of colour and to make high quality prints. The goal in this course is for each student to produce a final portfolio which demonstrates technical proficiency, is content-driven, and expresses the individual's personal artistic interests and vision.

NOTE: Students who have received credit for PHOT 210 may not take this course for credit.

NOTE: Each student's work is evaluated by a jury of Photography faculty at the end of the term.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 250 *Development of Photographic Traditions* (6 credits)

Prerequisite: Enrolment in the Major or Minor in Photography; or 24 credits in a Specialization/ Major in the Faculty of Fine Arts; or written permission of the program director. This lecture-based course is a critical examination of the development of photography from its historical origins to the present. Classes are organized thematically and include theoretical perspectives on photography as an artistic practice and as a socio-cultural phenomena. Topics include the relationship between photography and other forms of art, post-colonialist critique, issues of gender, institutional discourse, and the visual culture of modernity.

PHOT 300 *Photographic Vision: Theory and Practice II* (6 credits)

Prerequisite: PHOT 210 and 250 and enrolment in the Major or Minor in Photography; or written permission of the program director. The purpose of this studio course is to provide a framework within which students pursue their photographic practice at an intermediate level. Students are encouraged to explore concepts and technical components in a long-term project. They develop a photographic language which is specific to their own practice and learn from the work of other contemporary artists. The final portfolio is content-

driven and expresses personal artistic vision.
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.
NOTE: Each student's work is evaluated by a jury of Photography faculty at the end of each term.

PHOT 301 *Black-and-White II Fine Art Printing* (3 credits)

Prerequisite: PHOT 210, 211, 331; enrolment in the Major or Minor in Photography; or written permission of the program director. A continuation of PHOT 211, this studio course explores further techniques in fine art black-and-white printing. Students are introduced to advanced darkroom processes, mural printing, and quad tone digital printing. Students must produce a final portfolio that is content-driven, demonstrates technical proficiency, and expresses personal artistic interests and vision.
NOTE: Students who have received credit for PHOT 200 may not take this course for credit.
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 311 *Large Format Photography I* (3 credits)

Prerequisite: PHOT 210, 211, 250; enrolment in the Major or Minor in Photography; or written permission of the program director. A studio course introducing large format photography, its techniques and application. Demonstrations cover the basics of view camera operation, light metering, sheet film exposure, development, and advanced printing. Assignments based on traditional genres encourage ease with all aspects of large format use and their personal applications.
NOTE: Each student's work is evaluated by a jury of Photography faculty at the end of the term.
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 312 *Large Format Photography II* (3 credits)

Prerequisite: PHOT 210, 211, 250, 311; enrolment in the Major or Minor in Photography; or written permission of the Department. A studio course directed towards the development of an individual approach to view camera photography. Various uses of advanced techniques are also discussed. Emphasis is put on the development of a coherent portfolio of prints expressing personal concerns.
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 322 *Colour Photography II* (3 credits)

Prerequisite: PHOT 210, 250; PHOT 221 or 321; and enrolment in the Major or Minor in Photography, or written permission of the program director. A continuation of PHOT 221, this course explores further techniques in colour photography and advanced colour printing. Aesthetic issues such as changing attitudes towards the colour medium and its role in documentary work are discussed. A final portfolio reflects the students' personal approach to colour photography.
NOTE: Students who have received credit for

PHOT 210 may not take this course for credit.
NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 331 *Digital Photography I* (3 credits)

Prerequisite: PHOT 210; PHOT 221 previously or concurrently; and enrolment in the Major in Photography, or written permission of the program director. An introductory studio course investigating the technical and creative aspects of digital photography. This course provides students with an understanding of the digital image and a practical application of the tools within their personal approach to photography. Students will explore the production of digital photographs, emphasizing the manipulation of images with software and the preparation for different formats. Issues related to the use of digital imagery within the larger context of photography will be explored.
NOTE: Students who have received credit for this topic under a PHOT 498 number may not take this course for credit.
NOTE: Students are required to bear the cost of removable storage devices, printing, and other materials.

PHOT 332 *Digital Photography II* (3 credits)

Prerequisite: PHOT 331 and enrolment in the Major or Minor in Photography, or written permission of the Department. This advanced course expands on the basic control skills and creative aspects of digital technology by implementing personal approaches to the use of technology. Emphasis is on the creative development and advanced use of technology for the production of a portfolio.
NOTE: Students who have received credit for this topic under a PHOT 498 number may not take this course for credit.
NOTE: Students are required to bear the cost of removable storage devices, printing, and other materials.

PHOT 341 *Introduction to Contemporary Issues in Photography* (3 credits)

Prerequisite: PHOT 250 and enrolment in the Major or Minor in Photography, or written permission of the program director. This seminar course explores diverse theoretical approaches relevant to current photographic practice. Students learn about critical discourses that inform the reception of images. Readings form the basis of discussions, which are complemented by lectures, guests, visits to exhibitions, and other pertinent activities. Students are expected to produce short essays and complete one major research paper. Required texts vary from year to year.

PHOT 398 *Special Topics in Photography* (3 credits)

Prerequisite: Written permission of the Department. An opportunity for the study of limited and more specialized aspects of photography.
NOTE C/See §200.3

PHOT 399 *Special Topics in Photography* (6 credits)

Prerequisite: Written permission of the Depart-

ment. An opportunity for the study of limited and more specialized aspects of photography.
NOTE C/See §200.3

PHOT 400 *Advanced Workshop in Photography* (6 credits)

Prerequisite: 48 credits in the Major in Photography including PHOT 300, or written permission of the program director. A studio course in which students pursue one or more extended photographic projects in black and white and/or digital. Topics related to contemporary photography are presented in a seminar fashion. A group exhibition at the end of the year is part of the curriculum of this course.
NOTE: Each student's personal work is evaluated by a jury of Photography faculty at the end of each term.

NOTE: Students are required to bear the cost of film stock, processing, printing, and other materials.

PHOT 470 *Professional Internship* (6 credits)

Prerequisite: 48 credits in the Major in Photography and written permission of the Department. A student wishing to work in an apprentice capacity with an established photographic artist, or wishing to pursue research in photographic criticism, museum work, publication, or other related endeavours may apply for academic credit. The internship will be carried out under the joint supervision of a qualified professional (from within or without the University) and a full-time Photography faculty member. A clearly defined agreement between the Department, the student, and the artist or institution involved will be arrived at before the internship is undertaken. This agreement should state clearly the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate appreciable learning potential for the student.

PHOT 471 *Professional Internship I* (3 credits)

Prerequisite: 48 credits in the Major in Photography and written permission of the Department. A student wishing to work in an apprentice capacity with an established photographic artist, or wishing to pursue research in photographic criticism, museum work, publication, or other related endeavours may apply for academic credit. The internship will be carried out under the joint supervision of a qualified professional (from within or without the University) and a full-time Photography faculty member. A clearly defined agreement between the Department, the student, and the artist or institution involved will be arrived at before the internship is undertaken. This agreement should state clearly the nature of the student's participation and the hours of work expected. Projects receiving approval for the internship credits must demonstrate appreciable learning potential for the student.

PHOT 472 *Professional Internship II* (3 credits)

Prerequisite: 48 credits in the Major in Photography and written permission of the Department. Students

who wish additional internships in a professional milieu may take this course.

PHOT 481 *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department. A course of independent study in which the student explores a specific area of photography.

PHOT 482 *Independent Study II* (3 credits)

Prerequisite: PHOT 481 and written permission of the Department. A student repeating PHOT 481 registers for credit under PHOT 482.

PHOT 498 *Special Topics in Photography* (3 credits)

Prerequisite: Written permission of the Department. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of photography.

PHOT 499 *Special Topics in Photography* (6 credits)

Prerequisite: Written permission of the Department. A course for advanced students which provides an opportunity for the study of limited and more specialized aspects of photography.

Print Media:

PRIN 211 *Intaglio I* (3 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introductory studio course in intaglio techniques with an emphasis on creative imagery. This course covers traditional acid and non-acid techniques including drypoint, power engraving tools, aquatint, digital imaging, light-sensitive plates and methods of printing. Lectures and critiques will focus on theoretical, historical, and aesthetic issues in contemporary print media.

NOTE: Students who have received credit for PRIN 210 may not take this course for credit.

PRIN 221 *Lithography I* (3 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introductory studio course in the basic principles of hand-printed stone and photo-digital plate lithography with an emphasis on image development. Drawing and processing images on stone, creating digital files, hand-drawn and digitally generated transparencies, registration, edition printing, and an introduction to colour will be covered. Through assignments, group critiques, and individual discussions with the instructor, students will investigate print media in the context of contemporary culture and explore the theoretical and aesthetic issues in the creation of printed artworks.

NOTE: Students who have received credit for PRIN 220 may not take this course for credit.

PRIN 231 *Screenprinting I* (3 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. An introductory studio course in the basic techniques of screenprinting with an emphasis on creative imagery. This course covers stencil techniques including computer imaging, digital and hand-

drawn transparencies, light-sensitive emulsion, registration and colour printing. Students will explore the theoretical and conceptual issues of printed artwork in studio practice.

NOTE: Students who have received credit for PRIN 230 may not take this course for credit.

PRIN 311 *Intaglio II* (3 credits)

Prerequisite: PRIN 211 or written permission of the Department. An intermediate-level studio course in intaglio with an emphasis on multiple imagery, including digital applications in print, colour separations, registration, colour proofing and printing. Students will be expected to develop individual projects that explore theoretical issues in contemporary print practice.

NOTE: Students who have received credit for PRIN 210 may not take this course for credit.

PRIN 321 *Lithography II* (3 credits)

Prerequisite: PRIN 221 or written permission of the Department. An intermediate studio course in lithography where students will explore diverse conceptual and technical approaches to creating printed colour images. Drawing, digital imaging, photo-transfer methods, photo-plate processes, colour separation, inks, registration and colour printing will be covered. Emphasis through class discussions, slide lectures, visiting artists and critiques is placed on the development of individual studio art practice.

NOTE: Students who have received credit for PRIN 220 may not take this course for credit.

PRIN 331 *Screenprinting II* (3 credits)

Prerequisite: PRIN 231 or written permission of the Department. A studio course in the techniques of screenprinting at the intermediate level. This course will provide the opportunity for continued research in digital imaging and computer print applications, colour printing, alternative printing surfaces and the combination of print processes. Students will be required to create a body of artwork that demonstrates their theoretical and conceptual knowledge of contemporary print media.

NOTE: Students who have received credit for PRIN 230 may not take this course for credit.

PRIN 341 *Digital Print Media I* (3 credits)

Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course with an emphasis on exploring the interdisciplinary, multimedia, and theoretical aspects of digital prints. The focus will be on analogue/digital models, strategies for cultural sampling from the numeric matrix, and the convergence of print with new forms of mass communication such as the Internet.

**PRIN 351 *Digital Print Processes*
(3 credits)**

Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course in the basic concepts of digital imaging and print applications. This course covers file creation, layers and channels for multi-plate hand-printing, resolution, registration, and file export to various digital print formats. Lectures and critiques will

focus on theoretical, critical, and aesthetic issues in contemporary digital print media.

**PRIN 371 *Contemporary Print Processes*
(3 credits)**

Prerequisite: Enrolment in a BFA program or written permission of the Department. This studio course will address specific topics in print processes and new technologies. Students will create a portfolio of artwork that demonstrates their research.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

**PRIN 381 *Aspects of Print Media*
(3 credits)**

Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course that will explore specific problems in the discourse of print media. Students will create a body of artwork that demonstrates critical thinking and research on the featured topic.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

**PRIN 398 *Special Topics in Print Media*
(3 credits)**

Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course that examines ideas and practices in contemporary print media. Students will produce printed images that reflect their research and critical thinking on the specific topic.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

**PRIN 399 *Special Topics in Print Media*
(6 credits)**

Prerequisite: Enrolment in a BFA program or written permission of the Department. A studio course that examines ideas and practices in contemporary print media. Students will produce printed images that reflect their research and critical thinking on the specific topic.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

PRIN 411 *Intaglio III* (3 credits)

Prerequisite: PRIN 311 (or PRIN 210 before September 1997) or written permission of the Department. An advanced studio course for students who want to refine their expertise in intaglio techniques through experimentation and innovation. This course provides the opportunity for further exploration in digital imaging, photo-generated imagery, multiple-plate colour imagery, alternative print surfaces, combined print processes and new technologies. Students will be required to develop a coherent portfolio that demonstrates their involvement in contemporary print media.

PRIN 421 *Lithography III* (3 credits)

Prerequisite: PRIN 321 or written permission of the Department. An advanced studio course

that offers students the opportunity to refine their expertise in the creation of hand-drawn and digitally generated images in lithography while exploring experimental and innovative artwork. Emphasis is on individual creative development. Students may choose to explore unique prints, combine print processes, create sequential imagery, three-dimensional and installation projects, and cross-disciplinary work as alternative formats for the lithographic print. Demonstrations, slide and artists' presentations, lectures and critiques will focus on advanced lithographic print approaches and individual interpretation in the creation of artwork.

PRIN 431 *Screenprinting III* (3 credits)

Prerequisite: PRIN 331 or written permission of the Department. An advanced studio course where students will investigate digital print applications, experimental imagery, combined techniques and diverse forms of printing. Group critiques and lectures will emphasize problem solving and critical analysis in the creation of personal imagery.

PRIN 441 *Digital Print Media II* (3 credits)

Prerequisite: PRIN 341 or written permission of the Department. An advanced studio course emphasizing innovative and critical approaches to the digital print. Students will develop an independent research project and produce interdisciplinary work that investigates digital reproduction technologies.

**PRIN 451 *Projects in Print Media I*
(3 credits)**

Prerequisite: Six credits in Print Media or written permission of the Department. A studio course where students propose and complete print projects in consultation with the instructor. This course is an opportunity for students to continue their aesthetic research with in-depth and focused print projects. Students will design projects according to their interests and established technical proficiency. The course will emphasize individual practice within the context of informed discussion, group and individual critiques, gallery and museum visits, and may include an exhibition.

NOTE: Students who want advanced technical information in a particular process should enrol in 300- or 400-level courses of intaglio, screenprinting or lithography.

**PRIN 452 *Projects in Print Media II*
(3 credits)**

Prerequisite: PRIN 451 or written permission of the Department. A studio course that provides the opportunity for advanced research into personal imagery and a commitment to print processes. This course is a continuation PRIN 451.

PRIN 470 *Independent Study in Print Media* (6 credits)

Prerequisite: Enrolment in a BFA program and written permission of the Department. A studio course of independent study for which the student proposes a research project. The scope of the project and schedule of work should be equivalent to the workload of a six-credit course.
NOTE A/See \$200.3

PRIN 471 *Independent Study in Print Media I* (3 credits)

Prerequisite: Enrolment in a BFA program and written permission of the Department. A studio course of independent study in which the student proposes a research project. The scope of the project and schedule of work should be equivalent to the workload of a three-credit course.

PRIN 472 *Independent Study in Print Media II* (3 credits)

Prerequisite: PRIN 471 and written permission of the Department. A studio course of independent study in which the student proposes a research project. The scope of the project and schedule of work should be equivalent to the workload of a three-credit course.

**PRIN 481 *Professional Internship*
(3 credits)**

Prerequisite: Written permission of the Department. Internships are for students who wish to obtain practical experience by working as an apprentice in a professional environment, or who would like to pursue research in the curating of prints, print criticism, or other related experience in print media, and receive academic credit for the activity. Approval of the project will be based on the demonstrable learning potential of the activity. Students are required to submit an internship proposal that clearly defines the objective of the activity, appropriate workload (equivalent to the hours required for a three-credit course), nature of participation, and supervisory schedules. The internship will be jointly supervised by a faculty member and a qualified professional. It is the student's responsibility to obtain approval for the proposal from a program advisor, including any required contractual agreements, before the start of the internship.

**PRIN 498 *Special Topics in Print Media*
(3 credits)**

Prerequisite: Six credits in Print Media or written permission of the Department. A studio course for advanced students that examines ideas and practices in contemporary print media. Students will produce printed images that reflect their research and critical thinking on the specific topic.
NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

**PRIN 499 *Special Topics in Print Media*
(6 credits)**

Prerequisite: Six credits in Print Media or written permission of the Department. A studio course for advanced students that examines ideas and practices in contemporary print media. Students will produce printed images that reflect their research and critical thinking on the specific topic.
NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

Sculpture:

SCUL 210 *Sculpture and Material Practices* (6 credits)

Prerequisite: Enrolment in a BFA program or

written permission of the Department. This is a studio course in which students explore creative research to facilitate their development as artists in the encompassing discipline of sculpture. Modes of expression in sculpture are investigated through a variety of contemporary and traditional materials.

NOTE: Students who have received credit for SCUL 200 may not take this course for credit.

SCUL 251 Sculpture/Mechanics (3 credits)
Prerequisite: Enrolment in the Intermedia/Cyberarts program or written permission of the Department. This studio course introduces students to animating sculpture through a variety of techniques such as moving joints, gear, chain, and pulley systems, and motion converters, leading to more complex assemblies in animating static form. Students develop basic skills in reading and drawing blueprints, as well as in measuring and marking techniques for application in metal, wood, mould-making, and other applicable materials.

SCUL 310 Sculpture and Spatial Practices (6 credits)

Prerequisite: SCUL 210 (200) or permission of the Department. This course builds and expands on the potential for expression inherent in contemporary sculpture. Students are encouraged to develop an individual form of study through the various spatial considerations of sculptural intervention, installation, action, and object. Participants build on their awareness of contemporary issues and hone their identities as artists.

NOTE: Students who have received credit for SCUL 300 may not take this course for credit.

SCUL 396 Digital Sculpture (3 credits)
Prerequisite: Permission of the Department. This studio course introduces 3D software for sculptors, covering modelling, drafting, and rendering for both real and virtual output, using advanced manual and automated processes.

SCUL 398 Special Topics in Sculpture (3 credits)

Prerequisite: Third-year standing*; written permission of the Department. A workshop/seminar course providing an opportunity for the study of specialized aspects of sculpture.

NOTE C/See §200.3

**fewer than 33 credits remaining in the degree program.*

SCUL 399 Special Topics in Sculpture (6 credits)

Prerequisite: Written permission of the Department. A workshop/seminar course providing an opportunity for the study of specialized aspects in sculpture. *NOTE C/See §200.3*

SCUL 410 Sculpture and Interventionist Practices (6 credits)

Prerequisite: SCUL 310 (300) or permission of the Department. This is an advanced investigation of concepts through research in sculpture oriented

to the development of a personal body of work. Installation, intervention, and public space form the background for presenting sculptural ideas. Diversity of contemporary sculptural practice and critical discourse is encouraged to promote professional autonomy in students' studio work and ideas.
NOTE: Students who have received credit for SCUL 400 may not take this course for credit.

SCUL 450 Independent Study (6 credits)

Prerequisite: 48 credits completed in degree program; SCUL 410 (400) previously or concurrently; and written permission of the Department. This course provides the opportunity for a limited number of students to pursue advanced studies in sculpture.

SCUL 451 Independent Study I (3 credits)

Prerequisite: 48 credits completed in degree program; SCUL 410 (400) previously or concurrently; and written permission of the Department. This course provides the opportunity for a limited number of students to pursue advanced studies in sculpture.

SCUL 452 Independent Study II (3 credits)

Prerequisite: 48 credits in degree program; SCUL 451; and written permission of the Department. This course provides the opportunity for students to pursue advanced studies in sculpture.

SCUL 465 Contemporary Practice and Theory in Sculpture (6 credits)

Prerequisite: Enrolment in the Major in Sculpture, in Ceramics, or in Fibres; or written permission of the Department. A seminar course which looks at recent sculpture practice and theory from an artist's point of view. Readings and lectures will be complemented by visiting artists, visits to exhibitions, presentations, and other related activities.

SCUL 490 Advanced Studio Practice (6 credits)

Prerequisite: Enrolment in the Major in Sculpture, in Ceramics, or in Fibres; or written permission of the Department. A studio course providing an opportunity for the advanced student to work in an intimate context within a studio setting, structured around current topics of theoretical and practical importance.

Video:

VDEO 350 Video History and Theory (6 credits)

A survey lecture course introducing the history and theory of art video practice since its inception in the 1960's. The course locates the roots of this art form in such divergent impulses as conceptualism, community activism, technological experimentation, and broadcast television, as well as in narrative and documentary traditions. In addition, regional Canadian video artists and cooperatives are situated within international historical trends and the development of post-modern and other theoretical perspectives. Weekly screenings.

81.120 THEATRE

Faculty	Chair EDWARD LITTLE, Professor	Assistant Professors RAYMOND-MARIUS BOUCHER URSULA NEUERBURG-DENZER ROBERT REID SARAH STANLEY MARK SUSSMAN																																																
	Canada Research Chair SANDEEP BHAGWATI																																																	
	Professors NANCY HELMS ERIC MONGERSON																																																	
	Associate Professors KIT BRENNAN ANA CAPPELLUTO GENE GIBBONS																																																	
Location	Loyola Campus TJ Building, Room: 102 Tel.: 514-848-2424 ext. 4747	Fax: 514-848-4525 E-mail: theatre@concordia.ca Website: http://theatre.concordia.ca																																																
Department Objectives	The Theatre Department offers students an opportunity to explore theatre as an art form and instrument for social and personal change. The Theatre programs provide students with a basic grounding in design, theatre and development, production, performance, and playwriting, and serve as preparation for advanced studies. The Department welcomes autonomy and personal creativity in its students while encouraging initiative and collaboration. Reflecting the realities of modern theatre, it also prepares students for self-employment and entrepreneurial roles within national and international milieux.																																																	
Programs	<p>Students are responsible for fulfilling their particular degree requirements; hence, the following sequence must be read in conjunction with §81.20. The superscript indicates credit value.</p> <table><tr><td>48</td><td>BFA Major in Theatre</td><td>60</td><td>BFA Specialization in Theatre and Development</td></tr><tr><td>24</td><td>TDEV 209³; DFTT 209³; THEA 211³, 303³, 312³, 404³; PROD 211³; TPER 209³</td><td>27</td><td>TDEV 209³, 210³; DFTT 209³; THEA 211³, 303³, 312³, 404³; PROD 211³; TPER 209³</td></tr><tr><td>6</td><td>Chosen from DFTT 210³; TPER 210³; TDEV 210³</td><td>3</td><td>Chosen from DFTT 210³; TPER 210³</td></tr><tr><td>18</td><td>Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)</td><td>15</td><td>Chosen from TDEV 302³, 303³, 311³, 312³, 431³, 432³, 498³; DTHY 301³</td></tr><tr><td></td><td></td><td>15</td><td>Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)</td></tr><tr><td>60</td><td>BFA Specialization in Design for the Theatre</td><td>60</td><td>BFA Specialization in Theatre Performance</td></tr><tr><td>27</td><td>TDEV 209³; DFTT 209³, 210³; THEA 211³, 303³, 312³, 404³; PROD 211³; TPER 209³</td><td>27</td><td>TDEV 209³; DFTT 209³; THEA 211³, 303³, 312³, 404³; PROD 211³; TPER 209³, 210³</td></tr><tr><td>3</td><td>Chosen from TPER 210³; TDEV 210³</td><td>3</td><td>Chosen from TDEV 210³; DFTT 210³</td></tr><tr><td>9</td><td>Chosen from DFTT 311³, 321³, 331³, 498³</td><td>18</td><td>Chosen from TPER 231³, 311³, 312³, 331³, 345³, 355³, 398³, 431³</td></tr><tr><td>9</td><td>Chosen from DFTT 315³, 325³, 326³, 335³, 336³, 337³, 398³</td><td>12</td><td>Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)</td></tr><tr><td>3</td><td>THEA 411³</td><td></td><td></td></tr><tr><td>9</td><td>Elective credits from the Faculty of Fine Arts*</td><td></td><td></td></tr></table> <p>*Students are advised to select six credits from Studio Art electives.</p>		48	BFA Major in Theatre	60	BFA Specialization in Theatre and Development	24	TDEV 209 ³ ; DFTT 209 ³ ; THEA 211 ³ , 303 ³ , 312 ³ , 404 ³ ; PROD 211 ³ ; TPER 209 ³	27	TDEV 209 ³ , 210 ³ ; DFTT 209 ³ ; THEA 211 ³ , 303 ³ , 312 ³ , 404 ³ ; PROD 211 ³ ; TPER 209 ³	6	Chosen from DFTT 210 ³ ; TPER 210 ³ ; TDEV 210 ³	3	Chosen from DFTT 210 ³ ; TPER 210 ³	18	Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)	15	Chosen from TDEV 302 ³ , 303 ³ , 311 ³ , 312 ³ , 431 ³ , 432 ³ , 498 ³ ; DTHY 301 ³			15	Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)	60	BFA Specialization in Design for the Theatre	60	BFA Specialization in Theatre Performance	27	TDEV 209 ³ ; DFTT 209 ³ , 210 ³ ; THEA 211 ³ , 303 ³ , 312 ³ , 404 ³ ; PROD 211 ³ ; TPER 209 ³	27	TDEV 209 ³ ; DFTT 209 ³ ; THEA 211 ³ , 303 ³ , 312 ³ , 404 ³ ; PROD 211 ³ ; TPER 209 ³ , 210 ³	3	Chosen from TPER 210 ³ ; TDEV 210 ³	3	Chosen from TDEV 210 ³ ; DFTT 210 ³	9	Chosen from DFTT 311 ³ , 321 ³ , 331 ³ , 498 ³	18	Chosen from TPER 231 ³ , 311 ³ , 312 ³ , 331 ³ , 345 ³ , 355 ³ , 398 ³ , 431 ³	9	Chosen from DFTT 315 ³ , 325 ³ , 326 ³ , 335 ³ , 336 ³ , 337 ³ , 398 ³	12	Elective credits from the Department of Theatre (including a minimum of three credits at the 400 level)	3	THEA 411 ³			9	Elective credits from the Faculty of Fine Arts*		
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48	BFA Major in Playwriting	24	Minor in Theatre
24	TDEV 209 ³ ; DFTT 209 ³ ; THEA 211 ³ , 303 ³ , 312 ³ , 404 ³ ; PROD 211 ³ ; TPER 209 ³	6	Chosen from THEA 303 ³ , 312 ³ , 404 ³
6	Chosen from DFTT 210 ³ ; TPER 210 ³ ; TDEV 210 ³	6	Chosen from PROD 211 ³ ; THEA 211 ³ ; TPER 201 ³
15	THEA 241 ³ , 341 ³ , 342 ³ , 420 ⁶	12	Elective credits from the Department of Theatre
3	THEA 411 ³		

81.120.1 Admission to Programs in Theatre

The Department of Theatre has distinct admissions procedures in addition to the normal admission process of Concordia University. All applicants (except those applying to the Minor in Theatre) are required to submit a letter of intent (approximately 500 words) in which they name specifically to which program they wish to apply: the Major in Theatre, the Specialization in Theatre and Development, the Specialization in Design for the Theatre, the Major in Playwriting or the Specialization in Theatre Performance.

Applicants must arrange their appointments and obtain detailed information regarding interviews, auditions, portfolios, and letters of intent on the Department's website at: <http://theatre.concordia.ca>. In addition to the interview and letter of intent:

1. Applicants applying to the Specialization in Design for the Theatre must bring to the interview a portfolio including visual material demonstrating their creative abilities and interests.
2. Applicants applying to the Specialization in Theatre and Development are required to audition.
3. Applicants applying to the Specialization in Theatre Performance are required to audition.
4. Applicants applying to the Major in Playwriting must send in a portfolio of writing for the stage before their scheduled interview.
5. Applicants applying to the Major in Theatre may choose to audition or to submit a portfolio of materials demonstrating their creative abilities and interests.

Courses

Theatre:

THEA 211 Script Analysis (3 credits)
Prerequisite: Enrolment in a program of the Department of Theatre or written permission of the Department. A study of systematic approaches commonly used for the analysis of dramatic scripts. Students will practice analytical skills on a representative selection of plays, including, when appropriate, those slated for production by the Department.
NOTE: Students who have received credit for THEA 240 may not take this course for credit.

THEA 241 Elements of Playwriting (3 credits)
Prerequisite: Enrolment in a program of the Department of Theatre or written permission of the Department. Study of and practice in creating the elements of a play. Students will explore different aspects of the writing process, and are expected to submit work of their own on a regular basis for discussion and workshoping within the group.

THEA 298 Special Topics in Theatre Studies (3 credits)
Prerequisite: Written permission of the Department of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.
NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

THEA 299 Special Topics in Theatre Studies (6 credits)
Prerequisite: Written permission of the Department

of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

THEA 303 Theatre History I (3 credits)
A study of the development of the physical stage and representative theoretical and dramatic works within their social context from pre-history to the eighteenth century in Europe. Where appropriate, screenings of plays representing the periods under study are shown.
NOTE A/See §200.3

THEA 312 Current Canadian Theatre (3 credits)
A survey of Canadian theatre in the present day, incorporating a study of notable works, outstanding artists and other figures in the arts world and arts organizations. The course will include an analysis of conditions prevailing on the theatre in various regions of the country and will invite students to take stock of their own future in the theatre or elsewhere.
NOTE: Students who have received credit for THEA 403 may not take this course for credit.

THEA 317 Stage Management (3 credits)
Prerequisite: 12 credits in Theatre, or equivalent experience; or written permission of the Department of Theatre. The key role of a stage manager in theatrical production from audition through closing. Topics for consideration include organizational techniques, prompt-book construction and use, scheduling, personnel supervision, and the "running" of a show.

THEA 321 *Theatre Administration I*
(3 credits)

An introduction to theatre administration including theatre organization and management, budgeting, box office operation, publicity, and public relations. *NOTE A/See §200.3*

THEA 341 *Playwriting I* (3 credits)

Prerequisite: THEA 241, or enrolment in a program of the Department of Theatre, or written permission of the Department. A seminar in the writing of plays. Students will concentrate upon a particular genre, length of play, or other pre-arranged topic, and will submit original scripts for discussion, workshopping, and possible presentation.

THEA 342 *Playwriting II* (3 credits)

Prerequisite: THEA 241, or enrolment in a program of the Department of Theatre, or written permission of the Department. A seminar in the writing of plays. Students will concentrate upon a particular genre, length of play, or other prearranged topic, and will submit original scripts for discussion, workshopping, and possible presentation. The prearranged topic or genre will be different from that offered in Playwriting I in any one year.

THEA 398 *Special Topics in Theatre Studies* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

THEA 399 *Special Topics in Theatre Studies* (6 credits)

Prerequisite: Written permission of the Department of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

THEA 404 *Theatre History II* (3 credits)

Prerequisite: THEA 303 or written permission of the Department of Theatre. A study of the development of the physical stage and representative theoretical and dramatic works within their social context in Europe, the United States, and Canada from the nineteenth century to recent years. Where appropriate, screenings of plays representing the periods and types of works under study are shown.

NOTE: Students who have received credit for THEA 304 may not take this course for credit.

THEA 405 *Independent Study I* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Credit granted for independent projects supervised by a faculty member. Students are required to submit a paper based on their investigation.

NOTE C/See §200.3

THEA 411 *Directing* (3 credits)

Prerequisite: Completion of 24 credits of the Core, including DFTT 210 and TPER 210 or written permission of the Department of Theatre. Examination of and experimentation in staging and production organization. Exercises in visual, structural, and conceptual analysis.
NOTE A/See §200.3

THEA 415 *Independent Study II*
(3 credits)

Prerequisite: THEA 405 and written permission of the Department of Theatre. A continuation of THEA 405. Students who have taken THEA 405 register for THEA 415 for additional credits.

THEA 420 *Playwriting Workshop*
(6 credits)

Prerequisite: 48 credits in degree program, at least one of THEA 241, 341 or 342, and written permission of the Department of Theatre; or enrolment in the Major in Playwriting. A workshop for playwrights, actors, directors, and scenographers in which original scripts are written and workshopped for possible future production. An outcome of an appropriate dimension is a feature of this course.

THEA 422 *Theatre Administration II*
(3 credits)

Prerequisite: THEA 321 or written permission of the Department of Theatre. A continuation of THEA 321 with additional topics introduced such as financing, contracting, taxation, and touring.
NOTE A/See §200.3

NOTE: Students who have received credit for THEA 322 may not take this course for credit.

THEA 498 *Special Topics in Theatre Studies* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

THEA 499 *Special Topics in Theatre Studies* (6 credits)

Prerequisite: Written permission of the Department of Theatre. Topics in theatre which may include genres, periods, individual playwrights, and national theatres.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

Design for the Theatre:

DFTT 209 *Introduction to Design for the Theatre I* (3 credits)

Prerequisite: Permission of the Department of Theatre. An examination of the theatrical design process, including the role of designers in the theatre. Students study and practice the

conception, communication, and realization of design ideas in lectures and lab.

NOTE: Students who have received credit for DFTT 250 may not take this course for credit.

DFTT 210 *Introduction to Design for the Theatre II* (3 credits)

Prerequisite: DFTT 209. A continuation of DFTT 209.

NOTE: Students who have received credit for DFTT 250 may not take this course for credit.

DFTT 298 *Special Topics in Design for the Theatre* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

DFTT 299 *Special Topics in Design for the Theatre* (6 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

DFTT 305 *Independent Study* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Credit granted for independent projects in Design for the Theatre supervised by a faculty member.

DFTT 311 *Lighting Design* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Lighting design for the theatre with emphasis on conception, development, and communication of lighting design ideas. Students participating in lectures and studios examine theories, aesthetics, and conventions of stage lighting design. They also carry out projects in lighting design conception.

DFTT 315 *Lighting Design Realization* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Lighting for the stage with emphasis on analysis, development, and execution of lighting design ideas. Students participating in lectures and studios examine lighting as a practical expressive and interpretative media. They carry out projects using stage lighting equipment in an actual theatre space. *NOTE A/See §200.3*

DFTT 321 *Costume Design* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Costume design for the theatre with emphasis on imaginative and analytical processes of developing and communicating costuming design ideas. Students, participating in lectures, studios and projects, examine theories, aesthetics, and conventions of stage costume design.

DFTT 325 *Costume Design Realization* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Materials, equipment, techniques, and procedures utilized in the construction of theatre costumes. Emphasis is on patterning, draping, and basic construction methods.

DFTT 326 *Costume Accessories Realization* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Costuming for the stage with emphasis on analysis, development, and execution of costume design ideas. Students, participating in lectures and studios, examine materials, equipment, and procedures utilized in the realization of costume accessories. They carry out projects in buckram and frame construction for hats, mask-making, and accessory construction. *NOTE A/See §200.3*

DFTT 331 *Set Design* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Set design for the theatre with emphasis on conception, development, and communication of scenic design ideas. Students, participating in lectures and studios, examine theories, aesthetics, and conventions of set design. They also carry out projects in set conception.

DFTT 335 *Set Design Realization* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Stage scenery with emphasis on analysis, development, and execution of scenic design ideas. Students, participating in lectures and studios, examine the process of translating scenic designs into actual stage systems. They carry out projects using the equipment and material commonly used in set construction.

DFTT 336 *Stage Properties* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Studio work in the design and construction of properties and accessories for theatre production.

DFTT 337 *Scene Painting* (3 credits)

Prerequisite: DFTT 209 and 210 or written permission of the Department of Theatre. Studio work in the materials and technology of painting for the theatre. *NOTE A/See §200.3*

DFTT 398 *Special Topics in Design for the Theatre* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

DFTT 399 *Special Topics in Design for the Theatre* (6 credits)

Prerequisite: Written permission of the Depart-

ment of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

DFTT 498 *Special Topics in Design for the Theatre* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

DFTT 499 *Special Topics in Design for the Theatre* (6 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre design.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

Production:

NOTE: Conditions of access to courses and scheduling:

1. All assignments or roles are given after interview or audition.
2. Before registering for Production courses, students must make sure they are free to attend all rehearsals or crew calls according to the schedules published each session by the Department of Theatre.
3. Students may not register for more than one course in Production during the same semester.

PROD 202 *Behind the Scenes* (3 credits)

Students explore the processes of getting a play "on the boards." They trace the production process from the playwright's creation of a script, through directorial and design conception and the actor's work in rehearsal and performance, to the critic's and the audience's response. Students attend live theatre performances, meet with playwrights, actors, directors, and designers, and examine issues affecting the theatre's role, its operation, and its survival in Montreal and in society today.

NOTE: This course may not be credited towards the requirements for a BFA Specialization or Major in Theatre.

NOTE: Students who have received credit for PROD 211 or for this topic under a THEA 498 number may not take this course for credit.

PROD 211 *Introduction to Theatre Production* (3 credits)

Prerequisite: Enrolment in a program of the Department of Theatre or permission of the Department. A survey of selected operations central to production in the professional theatre.

NOTE: Students who have received credit for THEA 240 may not take this course for credit.

PROD 298 *Special Topics in Theatre Production* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

PROD 299 *Special Topics in Theatre Production* (6 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

PROD 311 *Theatre Production I* (3 credits)

Prerequisite: TDEV 209; DFTT 209; FFAR 250; THEA 211; TPER 209; PROD 211; two of TPER 210, TDEV 210, or DFTT 210; and written permission of the Department of Theatre. Participation in a theatre production prepared under the auspices of the Department of Theatre and presented to an audience. The systematic preparation for the presentation of the work requires the integration of scholarly, imaginative and organizational activities under the supervision of instructors and staff acting either as part of the creative team or as guides and members of an adjudicating panel.

PROD 312 *Theatre Production II* (3 credits)

Prerequisite: PROD 311 and written permission of the Department of Theatre. A continuation of PROD 311 in an intensive format, requiring extensive work of a different type or level of complexity, or demanding a higher degree of proficiency.

PROD 315 *Production A* (6 credits)

Prerequisite: PROD 311 and written permission of the Department of Theatre. A continuation of PROD 311 in an intensive format, requiring extensive work of a different type or level of complexity, or demanding a higher degree of proficiency.

PROD 398 *Special Topics in Theatre Production* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

PROD 399 *Special Topics in Theatre Production* (6 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

PROD 408 *Supervised Internship I* (3 credits)

Prerequisite: 24 credits in degree program and written permission of the Department of Theatre. An opportunity for students to obtain credit for

work completed for a recognized theatre, or a project under the joint supervision of a qualified professional and a full-time Theatre faculty member.

PROD 409 *Supervised Internship II*
(3 credits)

Prerequisite: PROD 408 and written permission of the Department of Theatre. A continuation of PROD 408. A student repeating PROD 408 register for PROD 409 for credit.

PROD 411 *Theatre Production III*
(3 credits)

Prerequisite: PROD 311 or 315; FFAR 250; six credits in courses outside the Faculty of Fine Arts and written permission of the Department of Theatre. Advanced assignments in the various areas of theatre.

PROD 412 *Theatre Production IV*
(3 credits)

Prerequisite: PROD 411 and written permission of the Department of Theatre. A continuation of PROD 411, with assignments of a different type, degree of complexity, or demanding a higher degree of proficiency.

PROD 415 *Production B* (6 credits)

Prerequisite: PROD 312 or 315 or 411, six credits in courses outside the Faculty of Fine Arts and written permission of the Department of Theatre. Extensive assignments, requiring intensive work in various areas of advanced theatre work.

PROD 416 *Production C* (6 credits)

Prerequisite: 48 credits in degree program; PROD 415; six credits in courses outside the Faculty of Fine Arts and written permission of the Department of Theatre. Includes extensive assignments in various areas of advanced theatre work.

PROD 498 *Special Topics in Theatre Production* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production. *NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.*

PROD 499 *Special Topics in Theatre Production* (6 credits)

Prerequisite: Written permission of the Department of Theatre. Selected topics in theatre production. *NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.*

Theatre and Development:

TDEV 201 *Telling Tales* (3 credits)

The telling of stories and tales. Students tell their own stories and those of other people. They explore individual and collective storytelling and the world's narrative storytelling. Students work on their feet to create different tales told in different ways.

NOTE: Students enrolled in a Major or

Specialization program in the Department of Theatre may not take this course for credit.

NOTE: Students who have received credit for this topic under a TDEV 298 number may not take this course for credit.

TDEV 209 *The Artist in Community*
(3 credits)

Prerequisite: Enrolment in a program of the Department of Theatre or written permission of the Department of Theatre. This course introduces students to the developmental aspects of the field, including therapeutic and social applications as they relate to personal and group development, and provides students with diverse perspectives on the artist's role in society. With an emphasis on experiential learning, opportunities are provided for practical work in the creation of original narratives, improvised role plays, and sensory and image work, towards an understanding of students' entrepreneurial potential in theatre making. *NOTE: Students who have received credit for DFHD 209 or DINE 200 may not take this course for credit.*

TDEV 210 *The Audience and the Performance Event* (3 credits)

Prerequisite: TDEV 209 or written permission of the Department of Theatre. This course introduces students to theories and practical skills informing a wide range of theatre and development approaches including agit prop, group workshop, collective creation, documentary drama, issue-based theatre, and collaborative community plays. Both theory and practice will be examined in the context of the relationship of the performance to its audience. Practical work will focus on collaborative group processes and the exploration of social issues through theatre. *NOTE: Students who have received credit for DFHD 210 or DINE 200 may not take this course for credit.*

TDEV 298 *Special Topics in Theatre and Development* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre and development. *NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.*

TDEV 299 *Special Topics in Theatre and Development* (6 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre and development. *NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.*

TDEV 302 *Theatre with Diverse Populations* (3 credits)

Prerequisite: TDEV 209 or written permission of the Department of Theatre. Design and prepara-

tion of appropriate drama or theatre activities with specific populations. Working as a team, students will learn to employ community development principles in planning and implementing a theatre program with a targeted population or community group. Topics include specialized learning and teaching strategies, animation skills, needs assessment, and program evaluation. This course will prepare students to carry out independent projects in upperlevel courses.
NOTE: Students who have received credit for DFHD or DINE 302 may not take this course for credit.

TDEV 303 *Storytelling, Oral Histories, and Identity* (3 credits)

Prerequisite: TDEV 209 or written permission of the Department of Theatre. A course in the study and practice of the narrative tradition, from its roots in the past to today. Stories from the student's own past and that of other cultures will be examined, leading to the creation and crafting of new stories and/or oral histories. Oral processes such as learning, embodying, and giving will be examined in the context of audience, desired effect, and ownership. Students will also gain a greater understanding of the power of listening: of hearing not only what a story says, but what it can do.
NOTE: Students who have received credit for DFHD or DINE 303 may not take this course for credit.

TDEV 311 *Popular Theatre: Theory and Practice* (3 credits)

Prerequisite: TDEV 209 or written permission of the Department of Theatre. An examination of the principles on which popular theatre is based, including objectives, approaches, and evaluation. The course will provide an overview of the work of various founders (e.g. Freire, Boal), as well as pertinent theatre companies around the world engaged in social activism and the creation of opportunities for social change. Topics are approached through a mix of academic studies and the practice of specific techniques. Students may also prepare a work of popular theatre.
NOTE: Students who have received credit for DFHD 311 or for this topic under a DINE 498 number may not take this course for credit.

TDEV 312 *Theatre with Young People* (3 credits)

Prerequisite: TDEV 209 or written permission of the Department of Theatre. Using both national and international contexts, students will look at various approaches to drama and theatre activities in work with children and adolescents, and examine these with reference to differences between performing for and creating with. The course will provide an overview of contemporary participatory practices, both within and outside a classroom setting, and will look at these practices in the larger context of theatre for young audiences in Canada. The course has a practical component, and students will have opportunities to learn and

implement age-appropriate activities.
NOTE: Students who have received credit for DFHD 312, DINE 412, or DINE 413 may take this course for credit.

TDEV 398 *Special Topics in Theatre and Development* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre and development.
NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TDEV 399 *Special Topics in Theatre and Development* (6 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre and development.
NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TDEV 405 *Independent Study I* (3 credits)

Prerequisite: 48 credits in degree program and written permission of the Department of Theatre. Independent projects in Theatre and Development supervised by a faculty member.
NOTE: Students who have received credit for DFHD 405 may not take this course for credit.

TDEV 415 *Independent Study II* (3 credits)

Prerequisite: 48 credits in degree program and written permission of the Department of Theatre. A continuation of TDEV 405. Independent projects in Theatre and Development supervised by a faculty member.
NOTE: Students who have received credit for DFHD 415 may not take this course for credit.

TDEV 431 *Special Projects in Theatre and Development I* (3 credits)

Prerequisite: TDEV 302 and written permission of the coordinator of Theatre and Development. An lecture/lab in observing, evaluating, planning and implementing drama curricula in various locations such as innercity schools, prisons, homes for the elderly, and women's shelters. Students shall engage in wide-ranging and intensive fieldwork in various placements, reporting back to classmates and receiving lectures, feedback and observations on their progress from the instructor of the course.
NOTE: Students who have received credit for DFHD 431 may not take this course for credit.

TDEV 432 *Special Projects in Theatre and Development II* (3 credits)

Prerequisite: TDEV 431 and written permission of the coordinator of Theatre and Development. Continuation of TDEV 431 with a different topic.
NOTE: Students who have received credit for DFHD 432 may not take this course for credit.

TDEV 498 *Special Topics in Theatre and Development* (3 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of

theatre and development.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TDEV 499 *Special Topics in Theatre and Development* (6 credits)

Prerequisite: Written permission of the Department of Theatre. The study of specialized aspects of theatre and development.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

Theatre Performance:

TPER 201 *Introduction to Acting I* (3 credits)

Emphasis on developing imagination and physical expression, including basics of improvisation, the playing of intention, and the group ensemble experience working towards presentation.

NOTE: Students enrolled in a Major or Specialization program in the Department of Theatre may not take this course for credit.

TPER 202 *Introduction to Acting II* (3 credits)

Prerequisite: TPER 201. This course is a continuation of TPER 201 with increased emphasis on language, character, and text.

NOTE: Students enrolled in a Major or Specialization program in the Department of Theatre may not take this course for credit.

NOTE: Students who have received credit for this topic under a TDEV 298 number may not take this course for credit.

TPER 209 *Acting I* (3 credits)

Prerequisite: Enrolment in a program of the Department of Theatre or written permission of the Department of Theatre. An introduction to the basic principles of the acting process. Areas of study include: sensory awareness, physical and vocal expression of image and intention, improvisation exercises focusing on the development of the actor's imagination, concentration, and ensemble playing. The emphasis is upon the process of making connections to images and listening to others in the theatrical space.

TPER 210 *Acting II* (3 credits)

Prerequisite: TPER 209. A continuation of TPER 209 with increased emphasis on language and text. The principles learned in the previous course will be applied to dramatic text including text analysis for the actor.

TPER 231 *Theatre Movement I* (3 credits)

Prerequisite: Written permission of the Department of Theatre. Movement for the stage including such areas as centring, relaxation, mime, neutral mask, and studies in rhythm and timing.

NOTE: Students who have received credit for TPER 213 or 313 may not take this course for credit.

TPER 298 *Special Topics in Theatre Performance* (3 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TPER 299 *Special Topics in Theatre Performance* (6 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TPER 311 *Character and Text* (3 credits)

Prerequisite: TPER 210. Principles of characterization in various dramatic genre: elements of rhythm, physical and vocal attitude, language, and related improvisation techniques.

TPER 312 *Acting Elizabethan Text* (3 credits)

Prerequisite: TPER 210. Analysis of Elizabethan text and application of acting principles to the demands of verse forms.

TPER 325 *Acting Styles* (3 credits)

Prerequisite: TPER 311 or 312. This course focuses on acting styles as they relate to audience/performer relationships in dramatic genre and periods.

NOTE: Students who have received credit for TPER 411 may not take this course for credit.

TPER 331 *Theatre Movement II* (3 credits)

Prerequisite: TPER 231. Approaching character through the use of mask. The study of movement and voice aspects of character are approached through the use of half-masks. Improvisation skills are further developed.

NOTE: Students who have received credit for TPER 323 may not take this course for credit.

TPER 333 *Special Performance Studies I* (3 credits)

Prerequisite: TPER 311, 312. The study of special performance techniques such as musical theatre, clown, *Commedia dell'Arte*, and mime.

NOTE: Students who have received credit for TPER 413 may not take this course for credit.

TPER 345 *Voice and Speech I* (3 credits)

Prerequisite: TPER 210. An introduction to voice, speech, and singing skills. Vocal production, articulation, phrasing, and language analysis are taught in studio and laboratory sessions.

NOTE: Students who have received credit for TPER 215 may not take this course for credit.

TPER 355 *Voice and Speech II* (3 credits)

Prerequisite: TPER 345. A continuation of TPER 345 with greater emphasis on shaping

patterns of speech, use of language for character development.

NOTE: Students who have received credit for TPER 315 may not take this course for credit.

TPER 398 *Special Topics in Theatre Performance* (3 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TPER 399 *Special Topics in Theatre Performance* (6 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TPER 431 *Theatre Movement III* (3 credits)

Prerequisite: TPER 331. Specialized movement techniques that may include such topics as Alexander, Feldenkreis, Laban, acrobatics and stage combat.

TPER 498 *Special Topics in Theatre Performance* (3 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.

TPER 499 *Special Topics in Theatre Performance* (6 credits)

Prerequisite: Written permission of the Department of Theatre. This course provides opportunities for studies in selected styles or modes of theatre performance.

NOTE: Specific topics, and additional prerequisites if required, will be stated in the Undergraduate Class Schedule.



faculty

section 100



Faculty Full-Time

- ABOU-ZEID, El Sayed, BSc Alexandria, BSc Military Tech. Coll., Cairo, MSc PhD Alexandria, Decision Sciences and Management Information Systems
- ABRAIRA, Ronald, BSc S.U.N.Y., MBA C'dia, Management
- ABRAMI, Philip, BA Bard Coll., MA PhD Manit., Education
- ACEMIAN, Nancy, BComm McG., MSc C'dia, Computer Science and Software Engineering
- ACLAND, Charles Reid, BComm Car., PhD Illinois, Communication Studies
- ADAMS, Liselyn, BMus Boston, DipMusPerf Royal Conserv., The Hague, Music
- AGARWAL, Anjali, BEng Delhi, MSc Calg., PhD C'dia, Electrical and Computer Engineering
- AGHDAM, Amir G., BSc Isfahan, MSc Sharif Tech., PhD Tor., Electrical and Computer Engineering
- AHMAD, Arshad, BComm C'dia, MBA PhD McG., Finance
- AHMAD, M. Omair, BEng Sir G. Wms., BSc Alld., DEng C'dia, Electrical and Computer Engineering
- AHMED, A.K. Waizuddin, BEng PhD C'dia, Mechanical and Industrial Engineering
- AHSAN, Syed M., BA Dacca, MA Essex, PhD McM., Economics
- AIT MOHAMED, Othmane, BEng Sidi-Bel-Abbes, MSc PhD H.P.N., Electrical and Computer Engineering
- AKGUNDUZ, Ali, BSc Gazi, MBA Illinois Tech., PhD Ill. at Chic., Mechanical and Industrial Engineering
- AKREY, Donna, BA S. Fraser, BFA C'dia, MFA N.S.C.A.D., Studio Arts
- ALBERT, Paul J., BSc PhD New Br., Biology
- ALECSANDRU, Ciprian, BS MS Politech. Inst. Bucharest, MS PhD Louisiana, Building, Civil and Environmental Engineering
- ALI, Syed Twareque, BSc MSc Dacca, PhD Roch., Mathematics and Statistics
- ALKASS, Sabah Toma, BSc Baghdad, MSc PhD Lough., Building, Civil and Environmental Engineering
- AL-KHALILI, Asim J., MSc PhD Strath., Electrical and Computer Engineering
- ALLEN, Paul, BA Br. Col., MDiv Tor., PhD(Th) Ott., Theological Studies
- ALLEN, Sara, BA McG., MA PhD KU Leuven, Philosophy
- ALLEN-HERMANSON, Sean, BA Dal., MA C'dia, PhD Tor., Philosophy
- ALLOR, Martin, BA Oakland, PhD Illinois, Communication Studies
- AL-RIFAI, Hammam, BA MA Amer. of Beirut, PhD Metropolitana, Venezuela, Classics, Modern Languages and Linguistics
- ALY, Ibrahim M., BComm MS Egypt, MBA PhD N. Texas State, Accountancy
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- AMER, Aishy, Cert. Acad. Teach. MSc Dortmund, PhD Québ., Electrical and Computer Engineering
- AMIR, Shimon, BA MA Tel Aviv, PhD McG., Psychology
- AMIT, Vered, BA McG., MA Tor., PhD Manc., Sociology and Anthropology
- AMOR, Meir, BA MA Tel-Aviv, PhD Tor., Sociology and Anthropology
- ANASTASIU, Stefan, BFA MFA Fine Arts Acad. Bucarest, Cinema
- ANDERSON, Jacqueline M., BA Dund., MSc Alta., PhD Madison, Wis., Geography, Planning and Environment
- ANDREWS, Jessica, BA Dal., MBA St. M., Management
- APPELBAUM, Steven H., BS Temple, MA St. Jos., PhD Ott., Management
- APRAHAMIAN, Sima, BA MA Amer. of Beirut, PhD McG., Sociology and Anthropology
- APRIL, Raymonde, BA Laval, Studio Arts
- ARGHEYD, Kamal, Higher Nat'l. DME Enfield Coll. of Tech., MBA Iran C.M.S., DBA Harv., Management
- ARSEL, Zeynep, BSc Bkent, MBA Middle East Tech., PhD Wis., Marketing
- ARVANITOGIANNIS, Andreas, BSc MA PhD C'dia, Psychology
- ASSI, Chadi, BSc Lebanese, MSc C.C.N.Y., PhD C.U.N.Y., Concordia Institute for Information Systems Engineering
- ATANASIADIS, I. Reena, BComm MBA C'dia, Finance
- ATHIENITIS, Andreas K., BSc N.B., PhD Wat., PEng Alta., Building, Civil and Environmental Engineering
- ATOYAN, Armen, MSc PhD Moscow Eng-Phys. Inst., DSc Yerevan Physics Inst., Mathematics and Statistics
- AUDOUSSET-COULIER, Sophie, MA Paris-Dauphine, Accountancy
- AUSTIN, Kevin, BMus MMA McG., Music
- BACHEWICH, Catherine, BSc Br. Col., PhD York (Can.), Biology
- BACHMANN, Ingrid, BA York (Can.), MA Art Inst. Chic., Studio Arts
- BACON, Simon, BSc Warw., MSc De Montfort, PhD Birm., Exercise Science
- BAGCHI, Ashutosh, BEng Jad., MSc I.I.T. Madras, PhD Car., Building, Civil and Environmental Engineering

BAHLI, Bouchaib, MBA *Laval*, MSc *Sfax*, PhD *Montr.*, *Decision Sciences and Management Information Systems*

BAILEY, Shawn, BFA *Calg.*, MFA *York (Can.)*, *Studio Arts*

BALE, Alan Clinton, MA PhD *McG.*, *Classics, Modern Languages and Linguistics*

BANDIA, Paul, Lèsl *Paris*, MA PhD *Montr.*, *Études françaises*

BARAKETT, Joyce, BA *Sir G. Wms.*, MA *McG.*, PhD *Montr.*, *Education*

BARAN, Boris, BSc *McG.*, MSc *Wayne State*, *Decision Sciences and Management Information Systems*

BARBIERI, Bryan S., BA *Loyola*, MBA *Col.*, BCL LLB *McG.*, *Marketing*

BARON, Lois J., BA *McG.*, MA *Mich. State*, PhD *Tor.*, *Education*

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BAYNE, Clarence S., BA MA *Br. Col.*, PhD *McG.*, *Decision Sciences and Management Information Systems*

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BEAULIEU-PREVOST, Dominic, BSc *C'dia*, MPs *Laval*, PhD *Montr.*, *Psychology*

BECKETT, Christine, MusBac *Tor.*, LMus MA *McG.*, *Music*

BELISLE, Jean, BA MA *Montr.*, PhD *Paris*, *Art History*

BEN HAMZA, Abdessamad, BS *Tetouan*, PhD *Granada*, PhD *N. Carolina State*, *Concordia Institute for Information Systems Engineering*

BENTAHAR, Jamal, BSc *Insea*, MSc *Ensias*, PhD *Laval*, *Concordia Institute for Information Systems Engineering*

BERGER, Rachel, BA *C'dia*, MA *Tor.*, MPhil *Camb.*, *History*

BERGLER, Sabine, Vordiplom *Stuttgart*, MS *Mass.*, PhD *Brandeis*, *Computer Science and Software Engineering*

BERNARD, Robert M., BS MS *Tenn.*, PhD *Wash.*, *Education*

BERNSTEIN, Jessey, BSc *McG.*, MA PhD *Roch.*, *Psychology*

BERTOLA, Marco, BA *Milan*, PhD *Sissa*, *Mathematics and Statistics*

BERTONE, John, BA *Southeastern*, MDiv *McM.*, ThM PhD *Prin.*, *Theological Studies*

BERZOWSKA, Joanna, BA *McG.*, BFA *C'dia*, MSc *M.I.T.*, *Design and Computation Arts*

BEST, Beverley, BA *Br. Col.*, MA PhD *S. Fraser*, *Sociology and Anthropology*

BETTON, Sandra, BComm *McM.*, MSc PhD *Br. Col.*, *Finance*

BHABRA, Harjeet, BS *Kharagpur*, DSM *Jamnalal Bajaj Inst.*, MBA *I.I.M. Madras*, PhD *Missouri-Columbia*, *Finance*

BHAGWATI, Sandeep, BA *Mozarteum Salzburg*, Master's Dip *Musikhochschule Munich*, *CURSUS Ircam (Paris)*, *Music; Theatre*

BHAT, Rama B., BEng *Mys.*, MTech PhD *I.I.T. Madras*, *Mechanical and Industrial Engineering*

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BILODEAU, Yves, BA MA PhD *U.Q.A.M.*, *Studio Arts*

BIRD, Frederick B., BABD *Harv.*, PhD *G.T.U. (Berkeley)*, *Religion*

BIRD, Peter H., BSc PhD *Sheff.*, *Chemistry and Biochemistry*

BIRON, Pascale, BSc MSc PhD *Montr.*, *Geography, Planning and Environment*

BLAIR, Lorrie, BFA MA *Ohio*, PhD *Ohio State*, *Art Education*

BLOODGOOD, Elizabeth Anne, BA *Dartmouth*, MA *Col.*, PhD *Prin.*, *Political Science*

BOBKER, Danielle, BA *BED Tor.*, MA *C'dia*, PhD *Rutgers*, *English*

BODE, Frederick A., BA *U.C.L.A.*, MA PhD *Yale*, *History*

BODUR, Onur H., BAdmin *Bogazici*, MAdmin PhD *Virginia State*, *Marketing*

BOIES, Kathleen, BSc *Montr.*, MA PhD *W. Ont.*, *Management*

BOISVERT, Donald, BA MA *C'dia*, PhD *Ott.*, *Religion*

BOLSTER, Stephanie, BFA MFA *Br. Col.*, *English*

BOLTON, M. Catherine, BA *Car.*, MA *Qu.*, PhD *McM.*, *Classics, Modern Languages and Linguistics*

BOND, Eleanor, BFA *Manit.*, *Studio Arts*

BONNEVILLE, Lucie, BA MA PhD *C'dia*, *Psychology*

BOTNER-MARIGOLD, Erica, BA *Wat.*, MSc *Br. Col.*, *Applied Human Sciences*

BOUCHARD, Paul, BFA *C'dia*, MA PhD *Montr.*, *Education*

BOUCHER, Raymond-Marius, BFA *C'dia*, *Theatre*

BOUFFARD, Paula, BA MA *U.Q.A.M.*, *Études françaises*

BOUGUILA, Nizar, BEng *Tunisia II*, MSc PhD *Sher.*, *Concordia Institute for Information Systems Engineering*

BOULANGER, Pier-Pascale, BA MA PhD *Montr.*, *Études françaises*

BOULIANNE, Emilio, BAdmin MBA *Laval*, PhD *H.E.C.*, *CGA Accountancy*

BOURRIE, Mark, BA *Wat.*, MA *Car.*, *Journalism*

BOUSHEL, Robert, BA *Acad.*, MA *S. Flor.*, DSC *Boston*, *Exercise Science*

BOUTCHKOVA, Maria, BS MS *Nat'l. & World Econ.*, PhD *Okla.*, *Finance*

BOUTHILLETTE, Sylvain, BFA MFA *C'dia*, *Studio Arts*

BOYARSKY, Abraham J., BEng ME PhD *McG.*, *Mathematics and Statistics*

BOYD, Gary, BSc *Car.*, MSc *Sask.*, PhD *Br. Col.*, *Education*

BRAKE, Wayne, BSc *Dal.*, MSc *Car.*, PhD *McG.*, *Psychology*

- BRANCATO, Dario, *Laurea Messina, MA PhD Tor., Classics, Modern Languages and Linguistics*
- BRAUER, Aaron, *BComm MA C'dia, Academic Technology*
- BRENNAN-WATTERS, Kit, *BA Qu., MFA Alta., Theatre*
- BRIGHT, Pamela, *BA BD Q'ld, MA PhD, Notre Dame (Ind.), Theological Studies*
- BRODT, Abraham, *BSc McG., MBA PhD N.Y.U., Finance*
- BRODY, Josef, *BA MA Charles, PhD Car., Mathematics and Statistics*
- BROUILLETTE, Marc André, *DEA Paris, BA MA Montr., PhD Sorbonne, Études françaises*
- BROWN, Alan, *BA San Fran. State, MA New Orleans, PhD Calif. (Riverside), Sociology and Anthropology*
- BROWN, Grant, *BSc Lethbridge, PhD Nfld., Biology*
- BROWN, Jeri, *BA Westmar Coll., MEd Kent State, Music*
- BROWNING, Catherine, *BSocSc Ott., MA PhD Car., Sociology and Anthropology*
- BRUTUS, Stéphane, *BA S. Fraser, MA PhD Bowling Green State, Management*
- BUI, Tien D., *BEng Ott., MEng Car., PhD York (Can.), Computer Science and Software Engineering*
- BUKOWSKI, William, *BA Canisius Coll., MA PhD Mich. State, Psychology*
- BULGAK, Akif Asil, *BS Tech. U. of Istanbul, MS PhD Wis., Mechanical and Industrial Engineering*
- BUSTROS, Jean-Claude, *BFA C'dia, Cinema*
- BUTLER, Gregory, *BSc PhD Syd., Computer Science and Software Engineering*
- BUXTON, William, *BA Alta., MA Oxf., MSc Lond., PhD Berlin, Communication Studies*
- BÜYÜKKURT, B. Kemal, *BA MBA Bogazici, PhD Indiana, Marketing*
- BÜYÜKKURT, Meral, *BA Bogazici, MBA PhD Indiana, Decision Sciences and Management Information Systems*
- BUZZETTI, Eric, *BCL LLB McG., PhD Boston Coll., Liberal Arts College*
- BYERS, William P., *BSc MSc McG., PhD Calif. (Berkeley), Mathematics and Statistics*
- BYRNES, Terence, *BA Antioch, MA C'dia, English*
- CADIEUX, Geneviève, *BA Ott., Studio Arts*
- CAIGNON, Philippe, *BA MA PhD Montr., Études françaises*
- CAMERON, Duncan, *BA MA New Br., MBA W. Ont., Management*
- CAMLOT, Jason, *BA C'dia, MA Boston, PhD Stan., English*
- CAMPBELL, Bryan, *BSc Tor., MA C'dia, PhD Montr., Economics*
- CAPOBIANCO, John A., *BSc McM., DSc Geneva, Chemistry and Biochemistry*
- CAPPELLUTO, Ana, *BFA C'dia, MEd McG., Theatre*
- CARDOSO, Walcir, *BA BA Do Para, MA Pontif. de Minas, PhD McG., Education*
- CARLINER, Saul, *BA Carnegie-Mellon, MAG Minn., PhD Ga., Education*
- CARNEY, Michael, *BSocSc Keele, MBA PhD Brad., Management*
- CARR, Graham, *BA MA Qu., PhD Maine, History*
- CARTWRIGHT WAGNER, Norma C., *BFA Mt. All., MA C'dia, Studio Arts*
- CARTY, Jarrett, *BA MA Car., MA PhD Notre Dame, Liberal Arts College*
- CHABOT, Thérèse, *BFA Coll. St-Maurice (Montr.), MFA Louisiana State, Studio Arts*
- CHAIKELSON, June S., *BA MSc PhD McG., Psychology*
- CHALIN, Patrice, *BSc MSc PhD C'dia, Computer Science and Software Engineering*
- CHALK, Frank R., *BSc MSc PhD Wis., History*
- CHAPMAN, C. Andrew, *BSc Red Deer Coll., BSc (Honours) Tor., PhD McM., Psychology*
- CHAPMAN, Owen, *BA K.C.N.S., MA Qu., PhD C'dia, Communication Studies*
- CHARLAND, Maurice, *BA McG., MA Iowa State, PhD Iowa, Communication Studies*
- CHAUBEY, Yogendra P., *BSc Ban., MA Roch., MStat Indian Statistical Inst., PhD Roch., Mathematics and Statistics*
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- CHEASLEY PATERSON, Elaine, *BA Bishop's, MA C'dia, PhD Qu., Art History*
- CHEKHOV, Leonid, *PhD Steklov Math. Inst., Mathematics and Statistics*
- CHEN, Bingshu, *BSc Beijing, MSc Chinese Acad. of Sci., PhD Wat., Mathematics and Statistics*
- CHEN, Ming Yuan, *BEng MEng Beijing Inst., PhD Mani., Mechanical and Industrial Engineering*
- CHEN, Zezhong, *BEng MSc Beijing, PhD Vic. B.C., Mechanical and Industrial Engineering*
- CHEN, Zhi, *BEng Dalian U. of Tech., PhD Regina, Building, Civil and Environmental Engineering*
- CHO, Charles, *BSBA MSA PhD Central Flor., Accountancy*
- CHORNEY, Harold R., *BA MA Mani., PhD Tor., Political Science*
- CHVATAL, Vaclav, *MA Charles, PhD Wat., Computer Science and Software Engineering*
- CLARK, Tim, *BA MFA MA C'dia, Studio Arts*
- CLARKE, Lynda, *BA McG., MA Tor., MA PhD McG., Religion*
- CLARKE, Murray, *BA W. Ont., MA Dal., PhD W. Ont., Philosophy*
- CLEGHORN, Ailie, *BA McG., MA C'dia, PhD McG., Education*
- COHEN, G. Elie, *BSc MSc PhD McG., Mathematics and Statistics*
- COHN, Naftali, *BA Harv., MA Yeshiva (New York), Religion*
- COLE, Sally, *BSc Trent, MA Nfld., PhD Tor., Sociology and Anthropology*

- COLLARD, Chantal, BA *Sorbonne*, MA *E.H.S.S. Paris*, PhD *Paris, Sociology and Anthropology*
- COLLINS, Laura, BA *York (Can.)*, BEd *Tor.*, MED *Ott.*, PhD *C'dia, Education*
- CONNOLLY, Catherine, BA *Windsor*, MPA *Qu.*, PhD *Wat.*, *Applied Human Sciences*
- CONSTANTINIDES, Constantinos, BSc *Keele*, MSc *N.Y. Inst. of Tech.*, PhD *Illinois Tech.*, *Computer Science and Software Engineering*
- CONWAY, Michael, BSc *Sher.*, MA PhD *Wat.*, *Psychology*
- COOPER, Philip, BSc *McG.*, *Psychology*
- CORWIN, Mark, BMus *Vic. B.C.*, MMA DMA *Madison, WI*, *Music*
- COSTANZO, Anthony, BA *Br. Col.*, MA *Wash.*, *Classics, Modern Languages and Linguistics*
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- COWAN, Glenn, BSc *Wat.*, MASC PhD *Col.*, *Electrical and Computer Engineering*
- CROOKS, Frank, BComm *McG.*, LLB LLL *Ott.*, *Management*
- CROSS, Daniel, BFA MFA *C'dia, Cinema*
- CROSS, Roy, BFA *Regina*, MFA *C'dia, Cinema*
- CROTEAU, Anne-Marie, BSc *C'dia*, BComm MSc *H.E.C.*, PhD *Laval*, *Decision Sciences and Management Information Systems*
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- CUCCIA, Louis, BSc PhD *McG.*, *Chemistry and Biochemistry*
- CUMMINS, Christopher J., BA MA *Camb.*, PhD *S'ton.*, *England, Mathematics and Statistics*
- DAFNI, Galia, BSc *Penn. State*, MA PhD *Prin.*, *Mathematics and Statistics*
- DAGENAIS, Daniel, BA MA *U.Q.A.M.*, PhD *Paris*, *Sociology and Anthropology*
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- DANIEL-HUGHES, Carly, BA MA *Flor. State*, MDiv *Harv.*, *Religion*
- DANIS, Marcel, BA *Loyola*, MA *Fordham*, LLL *Montr.*, *Political Science*
- DANISCH, Robert, BA *Virginia*, PhD *Pitt.*, *General Studies (Engineering and Computer Science)*
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- DAVID, Chantal, BSc *Montr.*, MEng PhD *McG.*, *Mathematics and Statistics*
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- DEBBABI, Mourad, BEng *Constantine*, MSc *Paris*, *Concordia Institute for Information Systems Engineering*
- DE BRENTANI, Ulrike, BComm MBA *Sir G. Wms.*, PhD *McG.*, *Marketing*
- DE COURVILLE NICOL, Valérie, BA MA *Ott.*, PhD *Car.*, *Sociology and Anthropology*
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- DE FREITAS, Jennifer, BDes *N.S.C.A.D.*, MA *C'dia*, *Design and Computation Arts*
- DE GUERRE, Donald W., BA *W. Ont.*, MA *Fielding Inst. of Santa Barbara*, Med *Tor.*, PhD *Fielding Inst. of Santa Barbara*, *Applied Human Sciences*
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- DEMIRLI, Kudret, BSc MSc *Middle East Tech.*, MSc *Cornell*, PhD *Tor.*, *Mechanical and Industrial Engineering*
- DEMONT, Richard, BSc *St.F.X.*, MSc *Indiana*, PhD *Pitt.*, *Exercise Science*
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 BERMAN, Joshua, *General Studies (Engineering and Computer Science)*
 BERMAN, Tamzyn, *Design and Computation Arts*
 BERNARD, Daniel, *Religion*
 BERNATCHEZ, Elise, *Studio Arts*
 BEROUAL, Saliha, *Études françaises*
 BERRY, Shawn, *Sociology and Anthropology*
 BERUBÉ, Nicole, *Management*
 BETHEL, Edward, *Education*
 BEUGIN, Julie, *Studio Arts*
 BHAKAR, Sushil, *Computer Science and Software Engineering*
 BIFFI, Johanne, *Studio Arts*
 BILODEAU, John, *Religion*
 BISAILLON, Richard P., *Political Science; School of Community and Public Affairs*
 BLANCHARD, Georgette, *Decision Sciences and Management Information Systems*
 BLANCO FERNANDEZ, Julia, *Classics, Modern Languages and Linguistics*
 BLIGH, Kate, *English; Theatre*
 BODYCOMB, Venetia, *Geography, Planning and Environment*
 BOGARDI, George, *Studio Arts*
 BOILEAU, Viviane, *English*
 BOIVIN, Hélène, *Études françaises*
 BOLDUC, Rémi, *Music*
 BOLSHOY, Daniel, *Music*
 BONYADI, Shelda, *Biology*
 BORCK, Anja, *Art History*
 BORENSTEIN, Joyce, *Cinema*
 BORMANIS, Katrina, *Art History*
 BOTA, Myriane, *Finance*
 BOTTENBERG, Joanna, *Classics, Modern Languages and Linguistics; Political Science*
 BOUCHARD, Marie, *Études françaises*
 BOUCHARD-ULUSOY, Diane, *Études françaises*
 BOUDAUD, Malek, *Education*
 BOULANGER, Denise, *Theatre*
 BOULAY, John, *Exercise Science*
 BRAITHWAITE, Catherine, *History*
 BRANAGAN, Martina, *Classics, Modern Languages and Linguistics*
 BRANDL, Eva, *Studio Arts*
 BRANSWELL, Michael J., *Journalism*
 BREUER, Robert E., *Études françaises*
 BRISCOE, Ken, *Communication Studies*
 BROCHU, Jacques, *Contemporary Dance*
 BRODERICK-LAUZON, Mairé, *English*
 BROOK, Jill, *Education*
 BROWN, Benson, *Mathematics and Statistics*
 BROWN, Nancy L., *Education*
 BRUCK, Karen, *Applied Human Sciences*
 BRYAN, Jay, *Journalism*
 BUCKLAND, Rhonda, *Applied Human Sciences*
 BUISSON, Eric, *Education*
 BURMAN, Marie Hélène, *Études françaises*
 BURSTEIN, Sam, *Psychology*
 BUSKARD, John, *Geography, Planning and Environment*
 BYKOVA, Olena, *Geography, Planning and Environment*

CABREJO, Pedro, *Decision Sciences and Management Information Systems*
 CADIEUX, Elizabeth, *Chemistry and Biochemistry*
 CADOTTE, Alain, *Classics, Modern Languages and Linguistics*
 CALDARERI-MOLLUSO, Vincenza, *Art Education*
 CALDERONI, Sylvie, *Études françaises*
 CALLEJAS-WILSON, Cristiana, *Classics, Modern Languages and Linguistics*
 CALOGEROPOULOS, Catherine, *Geography, Planning and Environment*
 CALON, Christian, *Music*
 CAMPBELL, Dave, *Exercise Science*
 CAMPBELL, Howard J., *Management*
 CAMPBELL, Marie, *Theological Studies*
 CAMPBELL, Robert, *Accountancy*
 CAMPION, Josée, *Religion*
 CANZER, Brahm, *Marketing*
 CAPLAN, Marlene, *Sociology and Anthropology*
 CAPLAN, Neil, *History*
 CAQUARD, Sébastien, *Geography, Planning and Environment*
 CARASTATHIS, Anna, *Simone de Beauvoir Institute*
 CARAYANNIS, Anastasios, *Applied Human Sciences*
 CARBERT, Michael, *English*
 CARDINAL, Philippe, *Études françaises*
 CARDUCCI-SIDORENKO, Elaine, *Classics, Modern Languages and Linguistics*
 CARLEVARIS, Anna, *Studio Arts*
 CARLSON, Adam, *English*
 CARON, Meredith, *Theatre*
 CARPENTER, Nick F., *Theatre*
 CARPENTER, Philip, *Journalism*
 CARPI-LOBATON, Carmen, *Classics, Modern Languages and Linguistics*
 CARTILE, Michael, *Music*
 CARUANA, Douglas, *Psychology*
 CARUSO, Josie, *Classics, Modern Languages and Linguistics*
 CASSIR, Philip, *Education*
 CASTELINO, Mike, *Accountancy*
 CAVALIER, Patrick, *Applied Human Sciences*
 CHAGNON, Ginelle, *Contemporary Dance*
 CHAIMA, Kunjilika, *Education*
 CHALIFOUX, Lisa M., *Education*
 CHAMANADJIAN, Lucia, *Classics, Modern Languages and Linguistics*
 CHAMPAGNE, James, *Liberal Arts College*
 CHAMPAGNE, Marc, *Biology; Chemistry and Biochemistry*
 CHAMPION, Christian P., *History*
 CHAN, Germaine, *Accountancy*
 CHAN, Soukwan, *Geography, Planning and Environment*
 CHARBONNEAU, Louis, *Finance*
 CHARETTE, Carole, *Design and Computation Arts*
 CHASE, Stanley, *Art Education*
 CHAVERDIAN, Gregory, *Music*
 CHECHILE, Michael, *Education*
 CHEMTOV, Robin, *Music*
 CHIAPPETTA, Giulia Grace, *Mathematics and Statistics*
 CHIPELLO, Christopher, *Journalism*
 CHLOPAN, Scott, *Education*
 CHOQUETTE, Michel, *Cinema; English*
 CHOUAKRI, Fazil, *Executive MBA*
 CHOUDRY, Abdul Aziz, *School of Community and Public Affairs*
 CHRONOPOULOS, Mary, *Accountancy*
 CHURCHER, Kassandra, *Education*
 CLARINI, Janice, *Sociology and Anthropology*
 CLARK, Dave, *Music*
 CLASSEN, Constance, *Loyola International College; Sociology and Anthropology*
 CLAVEAU, C. David, *Electrical and Computer Engineering*
 CLEARY, Sean, *Goodman Institute of Investment Management*
 CLEMENT, Samuel B., *Management; Psychology*
 COHEN, Leslie, *Management; Psychology*
 COJOCARU, Dora, *Music*
 COLAS, Philippe, *Marketing*
 COLE, Lindsay, *Geography, Planning and Environment*
 COLLEONI, Pier Luigi, *Classics, Modern Languages and Linguistics*
 COMEAU, Chantal, *Exercise Science*
 COMTOIS, Alain, *Exercise Science*
 CONKLIN, James, *Applied Human Sciences*
 CONNELLY, James, *Education*
 CONRADI, Alexa, *Communication Studies*
 CONTER, Alan, *Journalism*
 CONTRERAS, Rosa, *Classics, Modern Languages and Linguistics*
 COOK, Iain D., *Communication Studies*
 COOKE, Sally, *Creative Arts Therapies*
 COOLS, Valerie, *Études françaises*
 COONEY, Peter, *Journalism*
 CORMAN, Donald, *Design and Computation Arts*
 COSSIOS, Susana, *Classics, Modern Languages and Linguistics*
 COSTAIN, Robert, *Education*
 COTE, Ethel, *School of Community and Public Affairs*
 COUTU, Pierre, *Aviation MBA*
 COUTURE, Elisabeth, *Theatre*
 COWAN, Laura, *Education*
 COX, Robert, *Political Science*
 CRAIG, James, *Studio Arts*
 CRICHTON, Pearl, *Sociology and Anthropology*
 CRILLY, Chris, *Cinema*
 CRUICKSHANK, Lyle, *Marketing*
 CUETO, Diego, *Finance*
 CUGGY LAPALME, Judy, *English*
 DA CAMARA PEREIRA, Fabiana, *Communication Studies*
 DAIGNEAULT, Pierre, *Philosophy*
 DANIS, Jean-Claude, *Political Science*
 DANSEREAU, David, *Biology*
 DA PALMA, Maria, *Economics*
 DARCHEN, Sebastien, *Geography, Planning and Environment*
 DARDICK, Simon, *English*
 DAS, Sarmista, *Simone de Beauvoir Institute*
 DAS, Susil K., *Electrical and Computer Engineering*
 DASSIOS, George, *Marketing*
 DAUBNER, Ernestine, *Art History; Studio Arts*
 DAVARI, Sina S., *Accountancy*
 DAVID, Robert, *School of Community and Public Affairs*
 DAVIES, Howard, *Design and Computation Arts*

DAVIS, Allan, *Education*
 DAVIS, Donald, *Electrical and Computer Engineering*
 DAVIS, Mary-Ellen, *Cinema*
 DE AGUAYO, Anna, *Sociology and Anthropology*
 DEBIPARSHAD, Sahadeo N., *Economics*
 DEER, Alec Brian, *Religion*
 DEFERSHA, Fantahun Melaku, *Mechanical and Industrial Engineering*
 DE GRACE, Lynn, *Aviation MBA*
 DE IACO, Gilda, *Sociology and Anthropology*
 DEITCHER, David, *Studio Arts*
 DEL BURGO, Carlos, *Études françaises*
 DELISLE, Michèle, *Studio Arts*
 DELLA ROCCA, Marco, *Accountancy*
 DELORME, Bruno, *Marketing*
 DEL TREDICI, Robert, *Cinema*
 DEMERS, Diane, *Applied Human Sciences*
 DERFEL, Aaron, *Journalism*
 DE ROSA, Maria, *English*
 DESJARDINS, Leah, *Sociology and Anthropology*
 DESLAURIERS, Pierre, *Applied Human Sciences; Geography, Planning and Environment*
 DESLAURIERS, Roch, *Études françaises*
 DESMARAIS, Guylaine, *Building, Civil and Environmental Engineering*
 DESROSIERES DE LANAUZE, Renée, *Management*
 DEVINS, Rachel, *Applied Human Sciences*
 DEVRIES, Chris, *Geography, Planning and Environment*
 DEWAN, Aditya K., *Sociology and Anthropology*
 DHAVERNAS, Vincent, *Fine Arts*
 DIAMOND, Sherry, *Creative Arts Therapies*
 DIB, Akila Naima, *Études françaises*
 DI LEO, Giuseppe, *Studio Arts*
 DI LILLO, Antoine, *Études françaises*
 DI LULLO, Giovanni, *Classics, Modern Languages and Linguistics*
 DI MAURO, Maria, *Accountancy*
 DINAN, Susan, *Applied Human Sciences*
 DINER, Robyn, *Simone de Beauvoir Institute*
 DINSMORE, Brent, *Building, Civil and Environmental Engineering*
 DIONNE, Micheline, *Études françaises*
 DIXON, Shanly, *Education; Sociology and Anthropology*
 DJABIR, Kambi T., *Economics*
 DJABIR, Twahibu K., *Economics*
 DLUSY APEL, Deena, *Art Education*
 DOERR, Karin, *Classics, Modern Languages and Linguistics*
 DONAHUE, John S., *Classics, Modern Languages and Linguistics*
 DONIA-SOUSSA, Magda, *Management*
 DONTI, Chariklia L., *Marketing*
 DORE, Gilbert, *History*
 DOUESNARD, Manon, *Art Education*
 DOUGLAS, David, *Cinema*
 DOUKALI FARJI, Abdelali, *Classics, Modern Languages and Linguistics*
 DOW, Mark, *English*
 DOWD, Thomas, *Theological Studies*
 DOWSLEY, Martha, *Geography, Planning and Environment*
 DOYLE, Maureen, *English*
 DRAY, Patricia, *Creative Arts Therapies*
 DRESNER, Aaron, *Management*
 DU, Peng, *Accountancy*
 DUBE, Lakshmi S., *Mathematics and Statistics*
 DUBE, Patrick, *Building, Civil and Environmental Engineering*
 DUBINSKY, Lon, *Studio Arts*
 DU CAP, Marie-Claude, *Applied Human Sciences*
 DUCKWORTH, Martin, *Cinema*
 DUENEZ, Ricardo, *Geography, Planning and Environment*
 DUMA, Ewa, *Mathematics and Statistics*
 DUMAS, Guy, *Management*
 DUMAS, Raymond, *Cinema*
 DUNNING, Beth, *Education*
 DUPRAT, Anne, *Accountancy*
 DUPUIS, Israel, *Design and Computation Arts*
 DURAND, Chantal, *Studio Arts*
 DUROSEAU, Conrad, *Journalism*
 DZIECIOLOWSKI, Krzysztof, *Decision Sciences and Management Information Systems*
 EBER, Sandra, *Cinema*
 EDEH, Grace, *Education*
 EID, Christianne, *Accountancy*
 ELALI, Wajeeh, *Finance*
 ELLIOTT, Claire, *Education*
 ELLISON, Penelope Ann, *Finance*
 ELMENYAWI, Salam, *Theological Studies*
 EL-OMARI, Samir, *Building, Civil and Environmental Engineering*
 EMERY, Merrelyn, *Applied Human Sciences*
 ENDACOTT, Laura, *Studio Arts*
 ENGEL, Jody, *Management*
 ENGIN, Serafettin, *Mechanical and Industrial Engineering*
 ENKERLI, Alexandre, *Sociology and Anthropology*
 EPSTEIN, Lisa, *Education*
 ERRUNZA, Marie Josée, *Marketing*
 ESCAMILLA, Jesus David, *Classics, Modern Languages and Linguistics*
 ESCOBAR, Augusto, *Classics, Modern Languages and Linguistics*
 ESLAMI, Peyman, *Mathematics and Statistics*
 FAHMY, Mohamed Abdelmo, *Building, Civil and Environmental Engineering*
 FAKOURI, John, *Management*
 FALCONER, Annebruce, *Contemporary Dance*
 FANNING, Christian, *Accountancy*
 FARAH-HERBERT, Louli, *Études françaises*
 FARMER, Timothy, *Applied Human Sciences*
 FAY, Teresa, *Education*
 FEDER, Peter, *English*
 FERGUSON, Trevor, *English*
 FERNANDES, Neil A., *Management*
 FERRAND, Carlos, *Cinema*
 FIELD, Jessica, *Interdisciplinary Studies*
 FIGOLS, Florence, *Contemporary Dance*
 FIGOV, Harry, *Goodman Institute of Investment Management*
 FILIPPOU, Helen, *Classics, Modern Languages and Linguistics*
 FINN, Cindy, *Education*
 FIORE, David, *English*
 FIORENTINO, Jon, *English*
 FISET, John W., *Education*
 FISET, Robert, *Geography, Planning and Environment*

FLEMMING, Peter, *Interdisciplinary Studies*
 FLEURY, Jocelyne, *Music*
 FLOOD TURNER, Janice, *Studio Arts*
 FLOURIS, Triantafyllos G., *Aviation MBA*
 FORBES, Tegan, *Studio Arts*
 FORD-ROSENTHAL, Angela, *Sociology and Anthropology*
 FORSTER, Andrew, *Design and Computation Arts*
 FOX, Kamal G.W., *General Studies (Engineering and Computer Science)*
 FRAGOULIS, Anastasia T., *English*
 FRANCIS, Adel, *Building, Civil and Environmental Engineering*
 FRANK, Hallie, *Psychology*
 FRANKLIN, David, *Management*
 FRATINO, Antonella, *English*
 FREED, Jean, *Finance*
 FREEMAN, James P., *Geography, Planning and Environment*
 FRÉGEAU, Pierre, *Political Science*
 FRENCH, Amanda, *Applied Human Sciences*
 FRIEDMAN, Sorel, *English*
 FU, Yu-Hsiang B., *English*
 FULTON, Diane, *Applied Human Sciences*

 GABA, Radu, *Mathematics and Statistics*
 GABERT, Clare, *Education*
 GAGNÉ, Hélène, *Music*
 GAGNON, Gilles, *Études françaises*
 GAGNON, Jean-François, *Theatre*
 GAGNON-RIOPEL, Julie, *Classics, Modern Languages and Linguistics*
 GALINA, Harry Z., *Psychology*
 GALLAGHER, Stephen, *Political Science*
 GALLI, Barbara, *Religion*
 GAMOY, Bernard, *Studio Arts*
 GARABITO, Cristina, *Education*
 GARNER, Judith M., *Biology; Chemistry and Biochemistry*
 GARON, Jacques, *Finance*
 GAUTHIER, Pierre, *Electrical and Computer Engineering; Mathematics and Statistics*
 GAVIN, Joseph, *Theological Studies*
 GENDRON, Marie-Pier, *Fine Arts*
 GENTILE, Michael Anthony, *Finance*
 GERICKE, Irene, *Creative Arts Therapies*
 GERVAIS, Leonard, *Journalism*
 GHADERPANAH, Sadegh, *Computer Science and Software Engineering*
 GHAFFAR, Ayman, *Accountancy*
 GHAN, Zelda, *Education*
 GHAYAD, Philippe, *Economics*
 GHOBADI, Elham, *Chemistry and Biochemistry*
 GIAMPA, Anna, *Management*
 GIBBS, Charles, *Education*
 GILLIS, Susan, *English*
 GIRAUD, Eric Eugene, *Études françaises*
 GLITHO, Roch, *Concordia Institute for Information Systems Engineering*
 GLUCK, Yael, *Sociology and Anthropology*
 GOLD, Linda, *Education*
 GOLTABAGHI, Shiva, *Mathematics and Statistics*
 GOMEZ-PERALES, Juan, *Studio Arts*
 GONZALEZ ROMERO, Enrique Jesus, *Classics, Modern Languages and Linguistics*

 GORDON, Brian, *Goodman Institute of Investment Management*
 GOSSELIN, Marie-Nicole, *Études françaises*
 GOTT, Paul, *Journalism*
 GOULET, Erik, *Cinema*
 GOURLAY, Sheena, *Simone de Beauvoir Institute*
 GOYETTE, Louis, *Cinema*
 GRACE, Christina, *Exercise Science*
 GRAD, Judith, *Applied Human Sciences*
 GRAHAM, Jon, *Accountancy*
 GRAHAM, Kevin, *Decision Sciences and Management Information Systems*
 GRAHAM, Peter, *School of Community and Public Affairs*
 GRANTS, Anita, *Fine Arts*
 GRAVEL, Marc, *Concordia Institute for Information Systems Engineering*
 GRAY, Bruce, *Applied Human Sciences*
 GREEN, Doreen, *Political Science*
 GREENSPAN, Harry, *Mathematics and Statistics*
 GREIG, Sarah, *Design and Computation Arts*
 GRENIER, Bruno, *General Studies (Engineering and Computer Science)*
 GUERRERA, Maria, *Accountancy*
 GUIMONT, Anny, *Classics, Modern Languages and Linguistics*
 GUNDARA, Margaret, *Music*
 GUNNING, Pamela, *Education*
 GUO, Shen, *Economics*
 GUPTA, Madhvi, *Political Science*
 GUTSCHE, Clara, *Studio Arts*
 GUY, Jean-Sébastien, *Sociology and Anthropology*
 GUZEYEVA, Kateryna, *Classics, Modern Languages and Linguistics*

 HABER, Mark, *Marketing*
 HABERSTICH, Sonia, *Studio Arts*
 HADJINICOLAOU, John I., *Building, Civil and Environmental Engineering*
 HAGGAR, Janette, *Art Education*
 HAIG, Thomas Arthur, *Fine Arts*
 HAILPERN, Rosalyn, *Education*
 HAINS, Dominic, *Mathematics and Statistics*
 HALL, John L., *Management*
 HAMEL, Christiane P., *Études françaises*
 HAMMI, Abdelkrim, *Economics*
 HAMZEH, Mona, *Biology*
 HAN, Zhenhu, *Classics, Modern Languages and Linguistics*
 HANLEY, Jill, *School of Community and Public Affairs*
 HARB, Ali, *Classics, Modern Languages and Linguistics*
 HARMAT, Heidi, *Classics, Modern Languages and Linguistics*
 HARRISON, George, *Art History*
 HART, Caroline, *Studio Arts*
 HARTLEN, Neil, *Cinema*
 HARTMAN, Patrick Kasper, *English*
 HARTY, Sean, *Theological Studies*
 HARVEY, Johanne, *Applied Human Sciences*
 HASSAN, Marwan, *English*
 HAUNSTETTER, Tanya, *Applied Human Sciences; Marketing*
 HAYAT, Perwaiz, *Religion*
 HAYNES, Jennifer, *Applied Human Sciences*
 HAYS, Matthew, *Cinema; Journalism*

HEALY, Brendan, *Theatre*
 HEARNE, Dana, *Simone de Beauvoir Institute*
 HECHT, Robert, *Accountancy*
 HEMAMI, Ahmad, *Mechanical and Industrial Engineering*
 HENRI, Diane, *Accountancy*
 HENRICKS, Nelson, *Interdisciplinary Studies; Music*
 HERBISON, Philip, *Cinema*
 HERLAND, Karen, *Fine Arts; Simone de Beauvoir Institute*
 HERMOSILLA, Stephane, *Finance*
 HERSHORN, Kim, *Political Science*
 HERSHORN, Marvin, *Political Science*
 HESS, Salinda S., *Sociology and Anthropology*
 HIDALGO, Federico, *Cinema*
 HIGGINS, Ross, *Fine Arts; Sociology and Anthropology*
 HILAL, Pierre, *Accountancy*
 HIRSCHBERG, Jack J., *Psychology*
 HNATCHUK, James W., *Economics*
 HOCKENSTEIN, Michael, *Accountancy*
 HODAI HEMAMI, Shahla, *Decision Sciences and Management Information Systems*
 HODGES, Margaret E., *Art History; Philosophy*
 HOLLOWAY, Catherine, *English*
 HOMEL, David, *Études françaises*
 HORN, Kahn-Tineta, *Simone de Beauvoir Institute*
 HOROWITZ, David, *Management*
 HUANG, Chen F., *Education*
 HUDON, Stephen, *Management*
 HUGHES, Thomas H., *Computer Science and Software Engineering; Mathematics and Statistics*
 HUNG, Loretta, *Finance; Goodman Institute of Investment Management*
 HUNTER, Jesse, *Education*
 HURTUBISE, Robert, *Management*
 HUTCHISON, Taylor, *Accountancy*
 HYNES, Philippe, *Finance*
 IFTEKHAR, Aisha, *Mathematics and Statistics*
 IOVITA, Cristina, *English*
 IRWIN, Mitchell, *Loyola International College*
 ISHII, Maiko, *Mathematics and Statistics*
 ISLAM, Mohammad, *Economics*
 ISMAIL, Nafissa, *Psychology*
 ISSA, Kinda, *Accountancy*
 ISSLEY, Renata, *Education*
 JABABO, Khaled, *Computer Science and Software Engineering*
 JACKSON, Paul, *History*
 JACOBSON, Larry, *Accountancy*
 JAHAZI, Mohammad, *Mechanical and Industrial Engineering*
 JAMALI, Ibrahim M., *Economics*
 JASSIM, Raad, *Finance; Goodman Institute of Investment Management*
 JAY, Dickson, *Management*
 JETTE, Karine, *Classics, Modern Languages and Linguistics*
 JHA, Ranjana, *Classics, Modern Languages and Linguistics*
 JIANG, Bingxiao, *Classics, Modern Languages and Linguistics*
 JIANG, Hong, *Education*
 JOHAL, Rajiv, *Education*
 JOHNSTON, Elizabeth, *Marketing*
 JOHNSTON, Louise, *Religion*
 JONES, Francine, *Marketing*
 JORDAN, Randolph, *Cinema*
 JOURDE, Laurence, *Études françaises*
 JOVANOVIC, Dragan, *Biology*
 JOVANOVIC, Stefan, *Fine Arts*
 JRADE, Ahmad, *Building, Civil and Environmental Engineering*
 KALOGEROPOULOS, Dennis, *Psychology*
 KAMPERIDIS, Lambros, *Classics, Modern Languages and Linguistics*
 KAMTHAN, Pankaj K., *Computer Science and Software Engineering*
 KANNENGIESSER, Charles, *Theological Studies*
 KARABOGHOSSIAN, Ara, *Political Science*
 KARCHAVA, Eva, *Education*
 KARELIS, Antony, *Exercise Science*
 KASSABIAN, Hagop, *Education*
 KATZ, Rifka R., *Theological Studies*
 KAUFMAN, Barry, *Management*
 KAUSHAL, Ashok, *Building, Civil and Environmental Engineering*
 KEATING, Bridget, *Studio Arts*
 KELECSENYI, Klara, *Mathematics and Statistics*
 KENNEDY, David, *Applied Human Sciences*
 KENNEDY, Kathy, *Music*
 KENNEDY, Sarita, *Education*
 KENNEDY, William, *Political Science*
 KERBY, Matthew, *Political Science*
 KERMANI, Moin, *Decision Sciences and Management Information Systems*
 KES-COSTA, Barbara, *Classics, Modern Languages and Linguistics*
 KEZOUH, Abbas, *Mathematics and Statistics*
 KHAN, Azra, *Geography, Planning and Environment*
 KHOURI, Hala, *Études françaises*
 KHUVERDIAN, Clara, *Sociology and Anthropology*
 KILLINGER, Christine M., *Applied Human Sciences*
 KING, Holly, *Studio Arts*
 KLEIN, Tobi, *Creative Arts Therapies*
 KLEPKO, John, *Music*
 KLIMKIEWICZ, Aurelia, *Études françaises*
 KLOCHKO, Yulia, *Mathematics and Statistics*
 KNUDSEN, Christian, *Studio Arts*
 KOMGUEP, Jules Blaise, *Geography, Planning and Environment*
 KOWALIW, Taras, *Design and Computation Arts*
 KUCZEWSKI, Carmen N., *Accountancy*
 KUSPINAR, Bilal, *Political Science; Religion*
 KWIATKOWSKI, Mark, *Geography, Planning and Environment*
 LABELLE, Paul, *Marketing*
 LACHANCE, Caroline, *School of Community and Public Affairs*
 LAFOND, Jean-François, *Mathematics and Statistics*
 LAFONTAINE, Raymond, *Theological Studies*
 LAGACÉ, Eric, *Music*
 LAING, Stephen J., *Marketing*
 LALONDE, Marc P., *Religion*

LALONDE, Rachel, *Education*
 LAMARCHE, Michèle, *Études françaises*
 LAMONTAGNE, Valerie, *Design and Computation Arts*
 LAMOUREUX SCHOLÉS, Laurie, *Religion*
 LANCTOT, Micheline, *Cinema*
 LANDAU CHARK, Susan, *Religion*
 LANDMAN, Meredith, *Classics, Modern Languages and Linguistics*
 LANDRY, Karyne, *Études françaises*
 LANGLOIS-NETHERSOLE, Michele, *Education*
 LANTHIER-O'CONNOR, Sheila, *English*
 LAPIDUS, Steven, *Religion*
 LAPLANTE-L'HÉRAULT, Juliette, *Études françaises*
 LARIN, Lise H., *Studio Arts*
 LARIVIÈRE, Louise, *Études françaises*
 LAROCHE, Simon, *Studio Arts*
 LARSEN, Wayne, *Journalism*
 LARUE, Johanne, *Cinema*
 LAULY, Jean P., *Accountancy*
 LAURIEN-BEAUCAGE, Caroline, *Contemporary Dance*
 LAURIN-ANCTIL, Céline, *Études françaises*
 LAUZIÈRE, Abubakr Joël, *Études françaises*
 LAUZON, Rachel, *Art History*
 LAZAR, Barry, *Journalism*
 LEAHY, David, *English*
 LEB, Danielle, *Études françaises*
 LEBEL, Catherine, *Design and Computation Arts*
 LECCA, Doina, *Education: Simone de Beauvoir Institute*
 LECLERC, Hélène, *Classics, Modern Languages and Linguistics*
 LECLERC, Vincent, *Design and Computation Arts*
 LEDOUX, Marie-Stéphane, *Contemporary Dance*
 LEE, Mark, *Education*
 LEE-GENEST, Kevyn, *Psychology*
 LEFAVE, Laura J., *Interdisciplinary Studies*
 LEFEBVRE, Jean-Pierre, *Studio Arts*
 LEITHMAN, Gillian B., *Management*
 LEMAIRE, Marie Hélène, *Communication Studies*
 LEMESURIER, Linda, *Education*
 LEMOIGNAN, Josée, *Philosophy*
 LEMUS RODRIGUEZ, Alexandra, *Mathematics and Statistics*
 LEONARD, Gordon, *Concordia Institute for Information Systems Engineering: Management*
 LEONG, Rick, *Studio Arts*
 LEPRINCE, Martine, *English*
 LESLIE, Laura, *Exercise Science*
 LESLIE, Sharon, *Applied Human Sciences*
 LEWIS, Sybil, *Applied Human Sciences*
 LI, Tiemei, *Accountancy*
 LIARD, Alain, *Geography, Planning and Environment*
 LIMOGES, Alexandre, *Études françaises*
 LIN, Cheng-Ying G., *Classics, Modern Languages and Linguistics*
 LIN, Jenny, *Studio Arts*
 LIN, Joy C., *Classics, Modern Languages and Linguistics*
 LIPSON, Pamela S., *Études françaises*
 LISS, Selena, *Fine Arts*
 LISSOUBA, Danièle Bineka, *Études françaises*
 LO, Elsa, *Education*
 LO, Kevin Y., *Design and Computation Arts*
 LOADER, Alison, *Design and Computation Arts*
 LOBEL, Mia, *Applied Human Sciences*
 LOEWEN, Peter J., *Political Science*
 LOFRANCO, John, *English*
 LONG, Warwick, *Contemporary Dance*
 LO RASO, Rosario, *Management*
 LUCKOW, James, *Education*
 LUNNY, Deborah, *Education*
 LVINA, Elena, *Management*
 LYNCH, Shaun, *Marketing*
 LYPIDIDOU, Margarita, *Studio Arts*
 MACCUISH, Derek, *Political Science*
 MACDONALD, Catharine, *Education*
 MACDONALD, Kathleen, *Classics, Modern Languages and Linguistics*
 MACDONALD, Sean, *Classics, Modern Languages and Linguistics*
 MACINNES, Keith, *Goodman Institute of Investment Management*
 MACKINNON, Greg, *Goodman Institute of Investment Management*
 MACLEAN, Roger, *Sociology and Anthropology*
 MAGOR, Susan, *Management*
 MAHN, Stephen S., *Theological Studies*
 MALIK, Rajesh, *Education*
 MALY, Mary P., *Biology*
 MAMFREDIS, Maria, *Religion*
 MANCINI, Tony, *Decision Sciences and Management Information Systems*
 MANTEGH, Iraj, *Electrical and Computer Engineering: Mechanical and Industrial Engineering*
 MARACLE, Aiyana, *English*
 MARELLI, Marie-Paule, *Études françaises*
 MARGINSON, Indira C., *Education*
 MARKHAM, Valerie, *Education*
 MARSZALEK, Malgorzata, *Biology*
 MARTEL, Claude, *Communication Studies*
 MARTIN, Cynthia J., *Political Science: Simone de Beauvoir Institute*
 MARTIN, Jack, *Accountancy*
 MARTIN, Monique, *Music*
 MASELLI, Giuseppe, *Accountancy*
 MASON, Trudie, *Journalism*
 MASSOT, Alice, *Études françaises*
 MASTROIACOVO, Thérèse, *Studio Arts*
 MASTROMONACO, Angelo, *Accountancy*
 MATHIEU, Olivier, *Philosophy*
 MATTA, Rami, *Management*
 MATTHEWS, Kim, *Sociology and Anthropology*
 MAUREL, Mary Lee, *Sociology and Anthropology*
 MAXWELL, Erin, *Geography, Planning and Environment*
 MAY, Evan, *History*
 MCAULEY, John, *English*
 MCAUSLAND, Andrew, *Academic Technology*
 MCBREARTY, Madeleine, *Applied Human Sciences*
 MCCANN, Chris, *Music*
 MCCARTHY, Jason, *Finance*
 MCCLORY, Michael, *Chemistry and Biochemistry*
 MCDONOUGH, Brian, *Theological Studies*
 MCDUGALL, James Francis, *Fine Arts*
 MCELCHERAN, Stephan, *Education*
 MCENROE, Nicola A., *Geography, Planning and Environment*

MCEOWN, Patrick, *Studio Arts*
 MCEWEN, Indra, *Art History*
 MCFARLANE, Scott T., *Studio Arts*
 MCGIMPSEY, David, *English*
 MCGUIRE, Beverly, *Music*
 MCKAY, John, *Communication Studies*
 MCKAY-DUBOIS, Joelle, *Études françaises*
 MCKENDY, Thoman, *Liberal Arts College*
 MCLEOD, Shawna L., *Studio Arts*
 MEARNS, Robert A., *Mathematics and Statistics*
 MEDICOFF, Mark, *Marketing*
 MEDZALABANLETH, Valerie, *English*
 MEGRI, Ahmed Cherif, *Building, Civil and Environmental Engineering*
 MENKIS, Richard, *Religion*
 MENZIES, Stephen B., *Cinema*
 MERKEL, Clemens, *Music*
 MERRILL, Michael, *Studio Arts*
 MEYER, Elizabeth, *Applied Human Sciences*
 MIAO, Yu, *Education*
 MIGONE, Christof, *Studio Arts*
 MIHALKOV, Valery, *Cinema*
 MILKIAS, Paulos, *Political Science*
 MILKMAN, Lauretta J., *Music*
 MILL, Davina, *Creative Arts Therapies*
 MILLER, Ashley, *Studio Arts*
 MILLER, Joel, *Theatre*
 MINTZ-FRIEDMAN, Nechama, *Theological Studies*
 MIRON, François, *Cinema*
 MITELMAN, Stephanie, *Applied Human Sciences*
 MIZENER, Heather, *Education*
 MOAZZAMI, Bakhtiar, *Finance*
 MOGHADDAM K., Mahmood, *English*
 MOKHOV, Serguei, *Computer Science and Software Engineering*
 MOORE, D. Catherine, *Geography, Planning and Environment*
 MOORE, Jacqueline E.J., *Design and Computation Arts*
 MORIN, Sophie, *Études françaises*
 MORRISON, Craig, *Music; Studio Arts*
 MORRISON, Val, *Sociology and Anthropology*
 MOSCOVITZ, David, *Marketing*
 MOTT, Cathy, *Education*
 MOUSTAPHA, Hany, *Mechanical and Industrial Engineering*
 MOZUMDER, Md Sharif U., *Mathematics and Statistics*
 MROZ, Stan, *Accountancy*
 MUHAMMAD, Wali, *Music*
 MUISE, Sylvain, *Mathematics and Statistics*
 MURRAY, Robert, *Studio Arts*
 MYLES, Lawrence R., *Education*

 NACHFOLGER, Stanley, *Political Science*
 NAGLER, Solomon, *Cinema*
 NAJAC, Sandra, *Études françaises*
 NASR, George J., *Building, Civil and Environmental Engineering*
 NASRALLAH, Dimitri, *English*
 NAVARRO-FLORES, Olga, *School of Community and Public Affairs*
 NAWROCKI, Norman, *School of Community and Public Affairs*
 NAZNEEN, Roksana, *Sociology and Anthropology*

 NEALE, Adam J., *Building, Civil and Environmental Engineering*
 NEBENZAHL, Donna, *Journalism*
 NEUMANN, Heike, *Classics, Modern Languages and Linguistics*
 NEUMANN, Uwe, *Music*
 NEWHOUSE, David, *School of Community and Public Affairs*
 NICHOLSON, Karen, *Education*
 NICHOLSON, Luke D., *Art History*
 NIELSEN, Kai, *Philosophy*
 NIMARKO, Alfred G., *Economics*
 NIXON, Virginia, *Art History; Liberal Arts College*
 NOLAN, Rea, *Theatre*
 NOVY, Christine, *Creative Arts Therapies*
 NOWAK, Ted, *Accountancy*
 NYVEEN, Lawrence, *Journalism*

 OADES, Lorraine, *Interdisciplinary Studies*
 OALA, Monica, *Applied Human Sciences*
 OBERHOLZER, Ursula, *Biology*
 OBIEDAT, Ahmad, *Classics, Modern Languages and Linguistics*
 OBRADOVIC, Sanja, *Cinema*
 OBUCHOWICZ, Tadeusz, *Electrical and Computer Engineering*
 O'CONNELL, Brian, *Applied Human Sciences*
 OKHRATI, Ramin, *Mathematics and Statistics*
 OLIVERIO, Joseph, *Accountancy*
 OLIVIER, Marcelle, *Études françaises*
 O'ROURKE, Pat, *Religion*
 O'SHEA, Joseph, *Sociology and Anthropology*
 OSPINA MONTOTOYA, Luz, *Classics, Modern Languages and Linguistics*
 OSTRANDER, Gregory, *Classics, Modern Languages and Linguistics*
 OTHMANI, Imed, *Executive MBA*
 OTIS, Lise, *Classics, Modern Languages and Linguistics*
 OUELLET, Pierre, *General Studies (Engineering and Computer Science)*
 OVER, Adam, *Music*
 OXLEY, Dan, *Studio Arts*
 OXLEY, Robert Bruce, *Geography, Planning and Environment*

 PACE, Alicia, *Applied Human Sciences*
 PADAMADAN, Marina, *Mathematics and Statistics*
 PAINTER, Patricia, *Applied Human Sciences*
 PALCZYNSKI, Margaret, *Classics, Modern Languages and Linguistics*
 PALEVSKY, Gail, *Applied Human Sciences*
 PALMIERI, Diana, *Philosophy*
 PANT, Bhuvan C., *Chemistry and Biochemistry*
 PAO-MERCIER, Laura, *Sociology and Anthropology*
 PAPADOPOULOS, Alexia, *Études françaises*
 PAQUET, Nicole, *Creative Arts Therapies*
 PARDIAK, Edward, *Executive MBA*
 PARE, Julia, *Applied Human Sciences*
 PARENT, Marcel, *Religion*
 PARISELLA, John, *Executive MBA*
 PARISIEN, Aurele, *Art History*
 PASDERMAJIAN, Penney, *Sociology and Anthropology*
 PASIAN, Alexandra, *English*
 PAVLICIK, Vladimir, *Management*

PAYNE, Catherine, *English*
 PECK, Donald, *General Studies (Engineering and Computer Science)*
 PEDDLE, Katrina Marie, *Communication Studies*
 PELLETIER, Guy, *Music*
 PELUSO, Maria, *Political Science*
 PENGELLEY, Heather, *Journalism*
 PEROUT, Alena, *Geography, Planning and Environment*
 PERRELLA, André, *Political Science*
 PETCOFF, Christine, *Études françaises*
 PETERS, Kenneth, *Studio Arts*
 PETERSON, Leland, *Creative Arts Therapies*
 PETRUS, Jeremy, *Design and Computation Arts*
 PHILIPNERY, Richmond, *Accountancy*
 PICARD, Marc, *Marketing*
 PIGEON, Elaine, *English*
 PILON, Ricardo, *Aviation MBA*
 PINDERA, Loreen, *Journalism*
 PINET, Hélène, *Exercise Science*
 PINSONNEAULT, Michael, *Communication Studies; Music*
 PIRON, Sophie, *Études françaises*
 PLAIN, Odile, *Études françaises*
 PLANT, John, *Contemporary Dance; Music*
 POCOCK GOLDMAN, Dorothy M.E., *Chemistry and Biochemistry*
 PODMORE, Julie, *Geography, Planning and Environment*
 POIRIER, Eric, *Études françaises*
 POLLAK, Roland, *Cinema*
 PORTER, Jeremy, *Mathematics and Statistics*
 PORTER, Nicole Wendy, *Communication Studies*
 POTTER, Annie, *Education*
 POTVIN, Francine, *Studio Arts*
 POUTANEN, Mary Anne, *History*
 PRICE, Rachel, *English*
 PRINCE, Eric, *Cinema*
 PRINCE, Jason, *School of Community and Public Affairs*
 PROMIES, Marina, *Education*
 PROUD, Ronald, *Education*
 PROUDFOOT, John A.T., *Exercise Science*
 PRUNCUT, Andreea, *Mathematics and Statistics*
 PURICH, Peter, *Music*
 PUTALIVO, Patrizia, *Classics, Modern Languages and Linguistics*
 QUINLAN, Matthew, *Psychology*
 RADECKI, Brigitte, *Studio Arts*
 RADU, Ioana, *Geography, Planning and Environment*
 RAJALINGHAM, Chellaiyah, *Building, Civil and Environmental Engineering; Mechanical and Industrial Engineering*
 RAMACHANDRAN, Tanisha, *Religion; Simone de Beauvoir Institute*
 RAMBUKKANA, Nathan Patrick, *Communication Studies*
 RAMIREZ, Hector, *Classics, Modern Languages and Linguistics*
 RANDALL, David, *History*
 RATIU, Catalin, *Management*
 RAUDSEPP, Karl, *Music*
 RAVENBERGEN, Frances, *Applied Human Sciences; School of Community and Public Affairs*
 RAY, Karen, *Political Science*
 RAYNER, Vanessa, *Education*
 REEVES, Shelley, *Studio Arts*
 REGLER, Erwin, *Design and Computation Arts; Studio Arts*
 REHEL, Ron, *Exercise Science*
 REHMER, Moira, *Education*
 REIN, Kenton, *Aviation MBA*
 RENAUD, Nicolas, *Cinema*
 RENTERIA, Nelly, *Classics, Modern Languages and Linguistics*
 REWAKOWICZ, Anna, *Studio Arts*
 RHOADES, Troy, *Design and Computation Arts*
 RHODES, Barbara M.J., *Mathematics and Statistics*
 RICHARD, Jean Yves, *Études françaises*
 RICHARD, Robert, *Études françaises*
 RICHARDSON, Eva, *Fine Arts*
 RILEY, June, *Finance*
 RILEY, Kathleen C., *Classics, Modern Languages and Linguistics; Sociology and Anthropology*
 RINALDI, Remo, *Building, Civil and Environmental Engineering*
 RING, Nancy, *Studio Arts*
 RIVEN, Janis A., *Executive MBA; Management*
 ROAN, Thu Huong, *Accountancy*
 ROBERT, Sylvain, *Design and Computation Arts*
 ROBERTS, James, *Economics*
 ROBINS, Ross, *Management; Political Science*
 ROBSON, Colleen, *Geography, Planning and Environment*
 RODRIGUES LABRECHE, Maureen, *Studio Arts*
 RODRIGUEZ, Angel E., *Accountancy*
 ROLOFF, Peter, *English*
 ROMANELLI, Franco, *Economics*
 ROMANO, Santo, *Design and Computation Arts*
 ROOP, Frank, *Education*
 ROPER, Natalie, *Applied Human Sciences*
 ROSENBERG, Michael M., *Sociology and Anthropology*
 ROSS, Yaron, *Music*
 ROSSNER, Peter, *Education*
 ROSSOUW, Henk, *English*
 ROTSTEIN, Marc D., *Classics, Modern Languages and Linguistics*
 ROULET, Kathryn, *Geography, Planning and Environment*
 ROURKE, Martin, *Education*
 ROWE, Brenda, *Simone de Beauvoir Institute*
 ROY, André, *Études françaises*
 ROY, Ken, *Contemporary Dance*
 ROYKO, Van, *Cinema*
 ROZAHEGY, Mark P., *English; Philosophy*
 RUDDY, James W., *Mathematics and Statistics*
 RUSS, Stephanie, *Studio Arts*
 RUTKAUSKAS, Andreas, *Studio Arts*
 RUTTENBERG, Barbara, *Sociology and Anthropology*
 SABA, Soraya, *Classics, Modern Languages and Linguistics*
 SABETGHADAM HAGHIGHI, Noushin, *Mathematics and Statistics*
 SACK, Joanabbey, *Creative Arts Therapies*
 SACKSNER, Jeffrey H., *Management*
 SADEGHI, Behrang, *Mathematics and Statistics*

SAHLAS, Aphrodite J., *Political Science*
SAHLMAN, Lena, *Chemistry and Biochemistry*
SAID, Aminu, *Economics; Finance*
SAIDI, Abdessamad, *Mathematics and Statistics*
SAKS, Robby D., *Marketing*
SALAH, Patricia Jean, *Simone de Beauvoir Institute*
SALLIT, Marie, *Études françaises*
SAMIOTIS, Theodora, *School of Community and Public Affairs*
SAMNE, Caroline, *Applied Human Sciences*
SAMSON, Louise, *Music*
SAMY, Marie José, *Études françaises*
SANTANA, Carlos-Luis, *Computer Science and Software Engineering; Electrical and Computer Engineering; Mathematics and Statistics*
SARABIA, Diana, *Classics, Modern Languages and Linguistics*
SARNA, Lazar, *Finance*
SASSO, Anna, *Accountancy*
SAUDNY-UNTERBERGER, Helga, *Biology*
SAVOIE, Adrienne, *Music*
SAWKA, Cara, *Studio Arts*
SBARRA, Ugo, *Classics, Modern Languages and Linguistics*
SCHACTER, Jonathan, *Accountancy*
SCHEEDE-BERGDAHL, Andrea Celen, *Exercise Science*
SCHINCK, Micheline, *Education*
SCHMIDT, Rolf, *Chemistry and Biochemistry*
SCHNURR, Matthew, *Geography, Planning and Environment*
SCHULMAN, Stanley, *Accountancy*
SCHWARTZ, Gary, *Music*
SCOTT, Susan, *Studio Arts*
SEGUIN, Daniel, *Applied Human Sciences*
SEGUIN, Michel, *Études françaises*
SEKFALI, Badiia, *Études françaises*
SELLER, Robbyn, *Sociology and Anthropology*
SERDOUK, Hocine, *Geography, Planning and Environment*
SERGE, Luba, *School of Community and Public Affairs*
SHAFAAT, Ahmad, *Decision Sciences and Management Information Systems*
SHAH, Rikesh, *Accountancy*
SHAPIRO, Joel, *Goodman Institute of Investment Management*
SIDDIQI, Joseph, *Studio Arts*
SILAS, Mary, *Education; General Studies (Engineering and Computer Science); Marketing*
SILVERMAN, Dan, *Management*
SIMARD, Marie C., *Studio Arts*
SIMON, Cheryl, *Studio Arts*
SIMON, Karen, *Études françaises*
SIMS, Marilyn, *English*
SINCLAIR, Craig, *English*
SINGH, Meera Margaret, *Studio Arts*
SINGH, Shishir, *Finance*
SISTI, Anthony, *English*
SMALL, Pamela, *Exercise Science*
SMART, Angela, *Mathematics and Statistics*
SMITH, Allan, *Applied Human Sciences*
SMITH, Kevin, *Classics, Modern Languages and Linguistics*
SNIDERMAN, Sarah, *Education*
SNYDER, Joseph, *Psychology*
SOARE, Richard, *Geography, Planning and Environment*
SOARES DE MACEDO, Patricia, *Design and Computation Arts*
SOLOV, Roumen, *Management*
SOMERS, Bertram A., *Economics; Finance*
SOROKA, Kimberly, *Exercise Science*
SOROKA, Robert, *Marketing*
SOTIRON, Michael M., *Journalism*
SPACAGNA, Giuseppe, *Classics, Modern Languages and Linguistics*
SPECTOR, Avi, *Cinema*
SPENCE, Alwin C., *Psychology*
SPICER, Warren, *Music*
STANDJOFSKI, Harry, *Theatre*
STANKIEVECH, Charles, *Fine Arts*
STATEIKINA, Irina, *Electrical and Computer Engineering*
STEENBERGEN, Candis, *Simone de Beauvoir Institute*
STEFIK, Daniel Warren, *Cinema*
STEVENS, Laird, *English*
STIRLING, Donald G., *Biology*
ST-ONGE, Jean, *Marketing*
STOUTE, Anna, *Education*
SULLIVAN, Françoise, *Studio Arts*
SULLIVAN BROWN, Sheila, *Education*
SUNAHARA, Geoffrey, *Chemistry and Biochemistry*
SWEET, Frederick, *Applied Human Sciences*
SYED, Baqhar, *Accountancy*
SZIGETVARI, Zsolt, *Communication Studies; Marketing*
SZPILBERG, Anna, *Music*
SZPORER, Philip, *Contemporary Dance*
TAILLEFER, Chris, *Electrical and Computer Engineering*
TALLA, Malleswara Rao, *Computer Science and Software Engineering; Decision Sciences and Management Information Systems*
TAMAS, Steven, *Accountancy*
TARNOWSKI, Candice J., *Studio Arts*
TATLOW, Robert F., *Education*
TEMELINI, Mark A., *Classics, Modern Languages and Linguistics*
TEOLI, Maria-Luisa, *Classics, Modern Languages and Linguistics*
TEPPERMAN, Shelley, *Études françaises*
TEREKHOV, Vitaly, *Economics*
TERREAULT, Sara, *Theological Studies*
TESSIER, Christophe, *Études françaises*
TEVEL, Abe, *Finance*
THEODORE, David, *Design and Computation Arts*
THEODOSIADIS, Francisco, *Classics, Modern Languages and Linguistics*
THÉRIAULT, Madeleine, *Music*
TERRIEN, Michel-Charles, *Communication Studies*
THIEL, Stuart, *Computer Science and Software Engineering*
THOMSON, Christopher, *Political Science*
THOMSON, Shannon, *Music*
TIEPOH, Moses, *Economics*

TITUS, Kerly, *Computer Science and Software Engineering*
 TIWARI, Umanath, *Mathematics and Statistics*
 TODD, Barbara, *Studio Arts*
 TODD, Brad, *Design and Computation Arts*
 TODD, Teri, *Applied Human Sciences*
 TOMIOKA, Naoko, *Classics, Modern Languages and Linguistics*
 TONEV, Radostin, *Études françaises*
 TORTORICI, Charles, *Accountancy*
 TOTARO, Donato, *Cinema*
 TOUSIGNANT, Zoe, *Art History*
 TOYE, Michael, *School of Community and Public Affairs*
 TRAVER, Stephanie, *Études françaises*
 TREMBLAY, Francine, *Sociology and Anthropology*
 TSABARY, Eldad, *Music*
 TSCHERNOMOR, Irene, *Management*
 TSOUBLEKAS, George, *Economics*
 TURGEON, Alain, *Music*
 TURNER, David, *Music*
 TYRRELL, Roger, *Cinema*

ULLAH, Sami, *Geography, Planning and Environment*
 ULLMANN, François-René, *Études françaises*
 URBAS, Daniel, *Management*

VADEAN, Mirella Alina, *Études françaises*
 VALDEZ, Lizabeth, *Theatre*
 VALVERDE, Raul F., *Decision Sciences and Management Information Systems*
 VAN DER VEEN, Jon, *Communication Studies*
 VAN FOSSEN, Rachael, *Theatre*
 VELIN, Ronald, *Management*
 VÉRONNEAU, Pierre, *Cinema*
 VILLEMURE, Marc, *Music*
 VINCENT, Alex, *Psychology*
 VINIT, Florence, *Sociology and Anthropology*
 VON HOLTZENDORFF, Marcus, *Cinema*
 VUKELICH, Goranka, *Education*

WACLAWEK, Anna, *Art History*
 WADE, Anne, *Education*
 WAHHAB, Monir, *Finance*
 WALKER, Nicholas, *Education*

WALKER, Shirley A., *Applied Human Sciences*
 WALKER, Valerie, *Design and Computation Arts*
 WALLACE, Heather, *Communication Studies*
 WANG, Ya Fang, *Mathematics and Statistics*
 WARD, Susan, *Creative Arts Therapies*
 WATERS, David, *Journalism*
 WEBER, Monica, *Education*
 WELBURN, Barbara, *Education*
 WHITE, Emanuel, *Theological Studies*
 WILEMAN, Susie, *Applied Human Sciences*
 WILKO, Trina, *Education*
 WILSON, James, *English*
 WILSON, Michael, *Music*
 WILSON, Warren, *History*
 WINIARZ, John, *Music*
 WINIKOFF, Steven M., *Computer Science and Software Engineering*
 WONG, Edward, *Finance; Goodman Institute of Investment Management*
 WONG, Stephen, *Finance*
 WOODROW, Anna, *Sociology and Anthropology*
 WORENKLEIN, Abe, *Psychology*
 WUTTUNEE, Wanda, *School of Community and Public Affairs*

XING, Tuan, *Mathematics and Statistics*

YANOFISKY, Joel, *Journalism*
 YAROSHEVSKY, Michael, *Cinema*
 YATES, David, *Journalism*
 YERUSHALMI, Laleh, *Building, Civil and Environmental Engineering*
 YIMER, Alebachew D., *Mechanical and Industrial Engineering*
 YU, James K., *Economics*

ZAMORANO, Daniel, *Classics, Modern Languages and Linguistics*
 ZEFFIRO, Andrea, *Communication Studies*
 ZERBIB-GOLDSTEIN, Annie, *Exercise Science; Theological Studies*
 ZHAN, Jun, *Accountancy*
 ZHANG, Shu, *Mathematics and Statistics*
 ZHANG, Ying, *Finance*
 ZINEGYI, Alex P., *Marketing*
 ZOWALL, Hanna, *Economics*

Retired Full-Time Faculty

AIKEN, S. Robert, BA Belf., MA McM., PhD Penn. State, *Geography, Planning and Environment*
 HINTON, Christopher, *Cinema*
 KNITTER, Rosalind, BA Chic., MBA C'dia, *Management*
 MALY, Edward J., BSc Roch., PhD Princ., *Biology*
 MOORE, David, BA Dub., BA U.Q.A.M., MA C'dia, *Studio Arts*

SANDERSON, Warren, BA MA Boston, PhD N.Y.U., *Art History*
 TWEEDIE, Katherine, BA McG., MFA N.Y. State, *Studio Arts*
 WHITTOME, Irene, BFA RCA Dip Van. Sch. of Art, *Studio Arts*

2006 Retirements

ALLISON, R.R., BAMA Calif., PhD Flor. State, *Theatre*
 ASHTAKALA, Bala, BE Madr., ME Roor., PhD Wat., *Building, Civil and Environmental Engineering*
 ATWOOD, J. William, BEng McG., MASc Tor., PhD Illinois, *Computer Science and Software Engineering*
 BERGIER, Michel J., BA Nat'l. Educ. France, MBA PhD SUNY (Buffalo), *Marketing*

DAUDERIS, Henry J., BComm Montr., MBA McG., CA, *Accountancy*
 DECARIE, M. Graeme, BA Sir G. Wms., MA Acad., PhD Qu., *History*
 FAIRCHILD, Andrea, BFA Sir G. Wms., BEd St. Jos., MA C'dia, PhD U.Q.A.M., *Art Education*
 GAVAKI, Efie, BBus MBA Alabama, MA PhD Indiana, *Sociology and Anthropology*
 HILL, John L., BA Okla. Bapt., MA PhD Duke, *History*

	JETTE, Corinne, BEd McG., BA Montr., <i>Computer Science and Software Engineering</i>	PLOTKIN, Eugene I., BSc MSc PhD Leningrad, <i>Electrical and Computer Engineering</i>
	LIGHTSTONE, Jack N., BA Car., MA PhD Brown, <i>Religion</i>	TREMBLAY, Reeta C., BA Kashmir, MPhil J. Nehru, MA PhD Chic., <i>Political Science</i>
	LIU, Zeng-Rung, BA Soochow Taipeh, Taiwan, MA Vanderbilt, PhD Colo. State, <i>Economics</i>	WRIGHTSON, Robert, BA Qu., MLS W. Ont., <i>Reference/Selection Librarian (Webster)</i>
	LOWENFELD, George, BSc Sir G. Wms., MSc McG., CA, <i>Accountancy</i>	
2005 Retirements	ACLAND, Joan, BA Car., MA PhD C'dia, <i>Art History</i>	POOROOSHASB, Hormoz B., BS Manc. U.K., PhD Camb., <i>Building, Civil and Environmental Engineering</i>
	BOURJOLLY, Jean-Marie, BSc MSc P.Sab., MSc Montr., PhD Wat., <i>Decision Sciences and Management Information Systems</i>	RONQUIST, Eyvind C., BA St. John's Maryland, AM PhD Chic., <i>English</i>
	BROSS, Michael, BA MA PhD Manit., <i>Psychology</i>	SLACK, Brian, BA Lond., MA PhD McG., <i>Geography, Planning and Environment</i>
	COUSINEAU-LEVINE, Penelope, BA Manit., MFA SUNY (Buffalo), <i>Studio Arts</i>	SPENSLEY, Philip, BA Wis., MA PhD Wayne State, <i>Theatre</i>
	GOWING, Maureen, BA Car., MBA Tor., PhD Qu., <i>Accountancy</i>	SRIVASTAVA, Tariq N., BSc MSc Luck., PhD Gorakhpur, PhD Sheff., <i>Mathematics and Statistics</i>
	KORNBLATT, Mary Judith, BA Earlham Coll., PhD Cinc., <i>Chemistry and Biochemistry</i>	TITTLER, Robert, BA Oberlin Coll., MA PhD N.Y., <i>History</i>
2004 Retirements	AHMAD, Jaleel, BA Alig., MS Pitt., PhD M.I.T., <i>Economics</i>	KHALIL, Zohel, BSc Alexandria, PhD Moscow State, <i>Mathematics and Statistics</i>
	ALVI, Shafiq A., BA MA Karachi, PhD Colo., <i>Economics</i>	LATINOVIC, Vojislav N., Dip-Ing Belgrade, MSc Calg., DEng C'dia, <i>Mechanical and Industrial Engineering</i>
	ANVARI, Mohsen, BEng McM., MBA C'dia, MSc PhD Case Western Res., <i>Finance</i>	SELLERS, William R., BS Rhode Island, MEd Pitt., EdD Boston, <i>Exercise Science</i>
	ARNOPOULOS, Sheila, BA McG., MA C'dia, <i>Journalism</i>	SHORT, George D., BPE Alta. (Edmonton), BED Alta. (Calg.), MPE Windsor, <i>Exercise Science</i>
	FISHER, Gordon, BComm Birm., MA Camb., PhD S'ton., <i>Economics</i>	
2003 Retirements	ACHESON, Palmer, BA BEd Lond., MBA U.Q.A.M., MS PhD Indiana, TESL (Applied Linguistics)	<i>Decision Sciences and Management Information Systems</i>
	ANASTASOPOULOS, Anastasios, BA Athens, MA PhD Roch., <i>Economics</i>	PARKER, Robert J., BA Loras Coll., MA PhD Iowa, <i>Art Education and Art Therapy</i>
	CHARPENTIER, Gilles, BA LèsL MA Laval, DèSL Sher., <i>Études françaises</i>	SAHNI, Balbir S., BA MBA Delhi, PhD New Sch. Soc. Res., <i>Economics</i>
	CHEEKE, J. David, BA MA Br. Col., PhD Nott., <i>Physics</i>	SCHEER, Herfried, BA MA Alta., PhD McG., <i>Classics, Modern Languages and Linguistics</i>
	FRENCH, Stanley G., BA Car., MA Roch., PhD Virginia, <i>Philosophy</i>	SCHEINBERG, Stephen J., BSc Chic., MSc PhD Wis., <i>History</i>
	GROSS, Gerald, BA McG., MFA Carnegie-Mellon, MA Montr., <i>Theatre</i>	SCHWARTZMAN, Alex E., BA MA PhD McG., <i>Psychology</i>
	KAPOOR, Narinder N., BSc MSc Panj.(I), PhD McM., <i>Biology</i>	SHARMA, V. Alex, BA Manc. Coll., MA PhD Indiana, TESL (Applied Linguistics)
	KROKER, Arthur, BA Windsor, MS Purdue, PhD McM., <i>Political Science</i>	SHLOSSER, Franziska E., BA Sir G. Wms., MA PhD McG., <i>History</i>
	LAURION, Gaston, LèsL Montr., DES Dd'U Paris, <i>Études françaises</i>	VERTHUY, Mair E., BA Lond., MA Tor., <i>Études françaises</i>
	LeCAVALIER, Guy, BA MA Montr., PhD Johns H., <i>Sociology and Anthropology</i>	ZIELINSKI, Zenon A., Inz MTechSc DTechSc Politechnika Warszawska, Ing, <i>Building, Civil and Environmental Engineering</i>
	MORTON, Marjorie, BA Wis., MA Boston U., <i>Public Communications, Cinema</i>	
	NASSI, Morris, BComm C'dia, MBA McG.,	



equivalents index

section 200



200.1 FACULTY OF ARTS AND SCIENCE

Curriculum changes in the Faculty will affect some of the entries in the following list. Students should consult with their program advisor if they already have credits for a course which may be equivalent to another.

Students who have taken a given course under an old number may not repeat it for credit under an equivalent number.

NOTE: The use of "C" in the course prefix is discontinued. Unless otherwise indicated, a course previously prefixed with a C is equivalent to the identically numbered one without the C prefix.

NOTE: For old course numbers used prior to 1980-81, see Undergraduate Calendar 1984-85, or consult a program advisor.

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
Anthropology			
202	C211	380 }	APSS 490
303 }	C362	382 }	
304 }		381	LESR 381
311	368	383	LESR 481
370	C369	384	LESR 401
401 }	C469	421	LESR 420
402 }		422	LESR 399A
421 }	426	423 }	LESR 420 APSS 420 APSS C421
422 }		425 }	
424	422	427	LESR 427 LEIS C426
430	498E	431	LESR 431 LEIS C430
495	C499	432	LESR 432
Applied Human Sciences		437 }	
220 }	APSS 313 APSS 413	438 }	LESR 436 LESR 464 LEIS C464
314 }		439 }	
220 }	APSS 463	443 }	LESR 440 APSS 440 APSS C441
316 }		445 }	
220 }	{ APSS 318 { APSS 418	444	LESR 336
319 }	{ APSS 419 { APSS 419	450	LESR 450
225	APSS 415	460	APSS 460
230 }	APSS 240 {APSS C355 } APSS C351	485	LESR 485
232 }	{APSS C356 }	490	LESR 490 LEIS C490
241	LESR 241 LEIS C241	491	LESR 491 LEIS C491
260	LESR 261 LESR 250 LEIS C250	Biology	
270	APSS 250	202	201
281	LESR 281 LESR 393 LEIS C393	210	C205
310	LESR 210, 211	225	298D OR {230 240
311	245 APSS 399E	226	298E OR {250 270
312	253 APSS 353 APSS 453	227 }	{ 230 240 270
313	254 APSS 354 APSS 454	266	298C OR 365
315	256 APSS 356 APSS 456	321	359
323	LESR 398N	330	387
330	APSS 331 APSS 431	334	C237
333	LESR 398O	337	C238 OR {234 235 OR 398G
340	LESR 340	341	346
350	LESR 350	344	246
351	APSS 450 { APSS 451 APSS 452	350	398A
355	APSS 455	351	454
360	LESR 360	354	358, 453
361	LESR 361		
371	LESR 371 LESR C250 LEIS C342		

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
366	463	336	{ 335 435
367	262 OR 398B	338	{ 238 239
382	383	339	{ 330 337
383 } 384 }	333 OR PSYC 358	341	{ C342 C348
385	232	375	{ 372 } 371 373 }
386	398D	392	{ C390 OR { C390 C397 } C399
433	332	435	336
435	336	477	479
437	338	478	470
442	498		
443	498X		
449	349		
451	352		
452	498J		
453	356 OR 458		
459	355, 431		
463	498K		
464	498E		
466	CHEM 479		
468	498		
469	498		
471	498V		
483	384, 333		
Canadian Studies		Classics	
220	INTE C220*	230	HIST 219
320	INTE C320*	240	HIST 223
321	INTE C321*	242	HIST 225
421	INTE C421*	266	C264 HIST C227
422	INTE C422*	267	C265 HIST C229
* Prior to 1990-91		324	C224
		325	C225
		326 } 327 }	C320 CLAS C220
		341	241 HIST 323 HIST 224
		343	243 HIST 327 HIST 226
		354 } 355 }	254
Chemistry and Biochemistry		Communication Studies	
217 } 218 }	211	225	326
232	332	274	256
233	334	276	278
234	{ 231 } 232 } 332 298A }	284	{ 280 282
235	{ 331 298B }	307	{ 305 330
271 } 374 } 375 }	C372 } C373 } C371	309	{ 306 331
304	C303	319	398M
312	{ C310 } C314 { C315 } C319	320	C205
324 } 325 }	{ C321 C322 } C329	321	C205
327	C328	322 } 323 }	C304
328	391	324	255
333	233	JOUR } COMS } C340 343 } C343 } C342	
334	{ 338 } 339 } 238 330 337	352	C467
		354	398I
		365	398F
		366 } 367 }	C363
		370	470
		371	471
		374	399T
		376	378
		383	381
		385	387

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
407	{ 305 330	Education	
419	364	241 }	C441
423	444	440 }	
424	398Z	264	C392
JOUR }	COMS	295	271
446 }	C446	296	272
453	498M	297 }	{ 373 375
460 }	C465	371	C370
461 }		373	C270
464	498R	381	386
468	C466	387	C381
470 }	C468	395 }	473
471 }		493 }	
472	398S	396 }	474
473	469	494 }	
474	490	422 }	C421
476	478	423 }	
483	481	428 }	C430
485	487	429 }	
496 }	C495	473 }	C470
497 }		474 }	
		490	C497
		491	C498
		495	475 C472
		496	476
Economics		English	
221	See §200.7	207	209
222	See §200.7	212 }	211
251 }	250	213 }	
252 }		230	256
318	316	231	262
319	317	233	271
324	323	234	275
325	MAST 234, MATH 251, MATH 282	235	280
326	MAST 235, MATH 252, MATH 283	235	235N
350	351	237 }	242
393 }	{ 398B 398C	238 }	
409 }	408 C415	243	283
410 }		245	385
414 }	{ 312 411	246	395
428	DESC 416	246	246N
482 }	{ 383 498D	247	260
		249	237
Education		260	264, 265, 266
Adult Education (previously Andragogy)		261	270 257
201 }	C200	262	272 258
202 }		302	393
302	370	303	289 248
333 }	{ C330 C331	304	312 310
345 }	{ C340 C341	308	C298
	C343	310	317
345 }	{ C342 C343	311	302, 307
403	498X	311	311N
496 }	495	313 }	310, 312
497 }		314 }	
		318	318N
		319	328
		321	333
		322	335
		323	334
		325	338

Course	Old Numbers and Equivalents		Course	Old Numbers and Equivalents	
330	342		FLIT 351	{ FLIT 345	FRAN 356
331	381	251		FLIT 347	FRAN 357
336	352		FLIT 360		FRAN 360
337	356	286	FLIT 362		FRAN 256
340	279	306	FLIT 364		FRAN 257
341	307	C297	FLIT 370		FRAN 370
345	392		FLIT 372		FRAN 371
346	305		FLIT 374		FRAN 372
349	390		FLIT 382	{	FRAN 373
350	459				FRAN 374
351	382	248	FLIT 410		FRAN 421
355	C354		FLIT 412		FRAN 426
358	288		FLIT 414		FRAN 431
360	285	300	FLIT 416		FRAN 435
363	301		FLIT 418	{	FRAN 438
364	303				FRAN 439
365	309	319	FLIT 420		FRAN 441
370	287	290	FLIT 424		FRAN 448
374	370	{ C376	FLIT 443		FRAN 354
		C377	FLIT 446	FLIT 445	FRAN 453
376	371		FLIT 447		FRAN 460
377	372		FLIT 449		FRAN 455
378	375		FLIT 450		FRAN 454
379	379N		FLIT 451	FLIT 441	FRAN 450
382	288		FLIT 460		FRAN 462
390	390N		FLIT 462		FRAN 463
391	388		FLIT 471		FRAN 451
393 }			FLIT 472		FRAN 476
444 }	445		FLIT 474		FRAN 477
394	389		FLIT 475	FLIT 480	FRAN 479
394	394N		FLIT 494		FRAN 494
395	395N		FLIT 495		FRAN 495
452	293		FLIT 496		FRAN 496
471 }			FRAA 400	FRAN 330	FRAN 266
472 }	478		FRAA 401	FRAN 331	FRAN 267
473	479		FRAA 403	FRAN 333	FRAN 269
474	480		FRAA 404		FRAN 466
480	471		FRAA 405	FRAN 408	{
					FRAN 404
					FRAN 405
			FRAA 409		FRAN 409
			FRAA 410		FRAN 406
			FRAA 412		FRAN 407
			FRAA 413		FRAN 400
			FRAA 421		FRAN 469
			FRAA 422		FRAN 471
			FRAA 423		FRAN 403
			FRAA 430		FRAN 470
			FRAA 431		FRAN 410
			FRAA 491		FRAN 491
			FRAA 498		FRAN 498
			FRAN 307		FRAN 308
			FRAN 320		FRAN 334
			FRAN 332		FRAN 264
			FRAN 481		FRAN 381
			FRAN 482		FRAN 382
			FRAN 485		FRAN 385
			FRAN 488		FRAN 486
			FTRA 200		TRAD 200
			FTRA 201		TRAD 201
			FTRA 202		TRAD 202
			FTRA 298		TRAD 298
			FTRA 299		TRAD 299
			FTRA 301		TRAD 301
English as a Second Language					
209 }					
210 }	C201				
Études françaises					
FLIT 220		FRAN 220			
FLIT 230		FRAN 270			
FLIT 240		FRAN 271			
FLIT 298		FRAN 298			
FLIT 300		FRAN 321			
FLIT 302		FRAN 322			
FLIT 303		FRAN 252			
FLIT 305		FRAN 253			
FLIT 308		FRAN 364			
FLIT 310		FRAN 420			
FLIT 312		FRAN 425			
FLIT 314		FRAN 429			
FLIT 316		FRAN 432			
FLIT 318		FRAN 440			
FLIT 320		FRAN 446			
FLIT 341		FRAN 352			
FLIT 343		FRAN 353			
FLIT 349		FRAN 358			

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
FTRA 304	TRAD 304	Geography	
FTRA 310	TRAD 310	203	SCHA 254
FTRA 311	TRAD 311	204	SCHA 253
FTRA 398	TRAD 398	270	271 { 275 { C275 276 { 276 { C276
FTRA 399	TRAD 399	275	C271
FTRA 401	TRAD 401	276	C271
FTRA 402	TRAD 402	290	{ 211 271..... 275, 276
FTRA 403	TRAD 403	312	C412
FTRA 404	TRAD 404	315	C316
FTRA 405	TRAD 405	342	398B
FTRA 406	TRAD 406	347	C341
FTRA 408	TRAD 408	352	C356
FTRA 409	TRAD 409	353	C356
FTRA 410	TRAD 410	358	C355
FTRA 412	TRAD 412	359	C355
FTRA 414	TRAD 414	361 }	360
FTRA 416	TRAD 416	362 }	
FTRA 420	TRAD 420	376	371
FTRA 421	TRAD 421	433	C401
FTRA 492	TRAD 492	472	{ 372 498Z GEOL 498C
FTRA 498	TRAD 498	474	498R
FTRA 499	TRAD 499	491	URBS 491
Exercise Science		Geology	
207	303	224	C215
215 {	C215 C315, C316 C413, C415	231	C221
218	308 { C309 C310	232	C223
221 {	MATH 207 BIOL 222 PSYC 315	331	C310
233	333	332	C317 C412
257	353	415	C315
262	C337	417	C416 C412
263	335	German	
270	370	200 or 201 or 202	{ 210 211
271	470	240 or 241 or 242	{ 250 251
272	472	256, 257	255
311	398E	271	270
321	398F	301, 302	300
335	398G	306, 307	305
336	398H	365, 366	360
338 }	336 ... 433	405, 406	400, 452
339 }		411, 412	410
348	448, 498C	416	415
351	C451	421	420
358	C453, 456, 457	426, 427	425
380	403 ... C402 498F	431, 432	430
390	398I	436	435
414	C317	461, 462	465
422	404 ... C401 498K	History	
438	339	211	348
449	436	219	CLAS C230
452	498S	221	CLAS C231
454	C417	223	CLAS C240
480	460, 499A	225	CLAS C242
483	463, 499B	240	298E
492	491		

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
241	298F	310	400
C227	CLAS C266, C264	311	401
C229	CLAS C267, C265	365 }	360
276	371	366 }	
277	374	422 {	420
281	298N, HISZ 298N	{	421
283	298G, HISZ 298G	427 {	425
302 }		{	430
303 }	397	434 {	432
304 }		{	433
306	347	437	405
312	302, 303, 397, 402, 403	442 }	440
316 }		443 }	
318 }	324	461 }	460
320	398L	462 }	
321	398N		
322	398R, ARTH 398A		
323 ... 224.....	CLAS 341 CLAS 241		
327 ... 226.....	CLAS 343 CLAS 243		
339	298H, 398H		
340 }			
341 }	342		
343	398E, ARTH 398Y		
351 }			
352 }	345		
359 }			
360 }	368		
372	398F		
375 }			
376 }	380		
402	302, 397		
403	303, 397		
Interdisciplinary Studies		Journalism	
202	LUCC 200, LUCC 202	203	306
215	MATH 215	210	C305
223	PHIL 223	302	C300; C301
250	PHIL 220, PHIL 228, SCHA 250	303	C301
254	SCHA 254, URBS 254	309	410
283	HIST 283	316	310, 315
290	INTE 298A	317	310, 315
292	INTE 298B	318	408, 498H
293	INTE 298B	319	419, 498J
296	INTE 298S	330	430
333	INTE 499A, LUCC 333, LUCC 499A	336	415
410	LUCC 410	343 {	COMS C340
440	INTE 400 LUCC 400	{	COMS C342
441	LUCC 440, LUCC 441	{	COMS C343
Italian		400	C401
200 or 201 or 202	{ 210	402	C402
	211	421	420
240 or 241 or 242	{ 250	428	498M
	251	460	498N
253 }		463	398A
254 }	252	466	398B
256 }			
257 }	255		
301 }			
302 }	300		
306 }			
307 }	305		
		Liberal Arts College	
		295 }	294 }
		396 }	394 }
		397	493 392
		Library Studies	
		205 {	201
		{	202
		322 }	324 {
		323 }	{
		350 {	331
		{	345
		355 {	331
		{	345
		433	C333
		Linguistics	
		310	C210
		311	C211
		312	410
		372	C370, C371

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
400 }	411	MATH 471	MATH 491
401 }		MATH 472	MATH 492
441	SPAN 665	MATH 474	MATH 373
451	ARAB 451	MATH 475	MATH 379
Loneragan University College		MATH 478	MATH 436
202	LUCC 200, INTE 202	MATH 496	MATH C499
333	LUCC 499A, INTE 333, INTE 499A	STAT 249	MATH 242
410	INTE 410	STAT 250	MATH 243
440	LUCC 400	STAT 287	MATH 329
441	LUCC 400, LUCC 440, INTE 400, INTE 441	STAT 342	MATH 342
Mathematics and Statistics		STAT 343	MATH 343
ACTU 256	MATH 326, MAST 335	STAT 347	MATH 347
ACTU 257	MATH 327	STAT 349	MATH 337, MATH 351
ACTU 286	MATH 229	STAT 360	MATH 348
ACTU 357	MATH 427	STAT 388	MATH 232
ACTU 457	MATH 428	STAT 449	MATH 451
ACTU 486	MATH 429	STAT 450	MATH 454, MATH C345
MAST 217	MATH 216, COMP 238	STAT 452	MATH 353
MAST 218	MATH 262, MATH 264	STAT 460	MATH 443
MAST 219	MATH 263, MATH 265	STAT 461	MATH 437
MAST 221	MATH 242	STAT 480	MATH 445
MAST 223	MATH 337	Philosophy	
MAST 224	MATH 231, MATH 361	210	223
MAST 234	MATH 251, MATH 282, ECON 325	212	224
MAST 235	MATH 252, MATH 283	214	321
MAST 330	MATH 271	220	PHIL 228, INTE 250, SCHL 250
MAST 332	MATH 232, COMP 367, COMP 467	225	326
MAST 333	MATH 243	232	241
MAST 334	MATH 311, MATH 354	234	242
MAST 335	MATH 326, ACTU 256	235	248
MATH 211	MATH 205	250	240
MATH 242 }		252	230
MATH 243 }	MATH 241	260 }	
MATH 251	MATH 282, MAST 234, ECON 325	261 }	370
MATH 252	MATH 283, MAST 235	266	246
MATH 262 }		270	211
MATH 263 }	MATH 261	314	323
MATH 264	MATH 262, MATH 344, MAST 218	315	321
MATH 265	MATH 263, MATH 345, MAST 219	319	350
MATH 327 }		324	346
MATH 427 }	MATH C325	326	338
MATH 336 }		327	354
MATH 436 }	MATH C331	330	362
MATH 337 }		332 }	
MATH 437 }	MATH C431	333 }	331
MATH 344	MATH 262	339	353
MATH 345	MATH 263	343	357
MATH 348 }		345	358
MATH 448 }	MATH C344	355	348
MATH 352	MATH 381	356	349
MATH 354	MATH 311, MAST 334	359	340
MATH 361	MATH 231, MAST 224	360 }	
MATH 364	MATH 244, MATH 362	361 }	473
MATH 365	MATH 245, MATH 363	362	C462
MATH 369	MATH 393	363	453
MATH 370	MATH 271	365	454
MATH 387	MATH 232	366	351
MATH 464 }		370	310
MATH 467 }	MATH C461	371	247
MATH 470	MATH 394	376	313

Course	Old Numbers and Equivalents		Course	Old Numbers and Equivalents	
377 }	376		366	{343	
378 }				{345	
384	334		368	472	
385	335			{382	
386	312		372	{383	
389	347			{474	
414	422		376 }	374	
420 }	421		378 }		
422 }				{346	
425	426		379	{348	
439	455		380	360	
453	460		382 }	372	
460	C360		383 }		
466	457		384	370	
467 }	469 C469	392	376	
468 }			393	378	
470	410		394	385	
473	412		422	359 451
474	417		423	417	
487	467		424	431	
488	468		433	470	
489	449		435	475	
			438	453	
			480	462	
			481	432	
			482	434	
			484	437 436
Physics			Psychology		
245	243		280	C391	
290	{295		281	C392	
	{296		318	384	
292	397		322 }		
346	344		323 }	339	
352	252		324 }		
353	354		325	398B	
458	456		326 }	336	
494	495		327 }		
			331 }	333	
			332 }		
			334 }		
Political Science			335	398I	
202	{201 }	200	343 }	342	
	{203 }		344 }		
204	{232 }	250	346 }	345	
	{234 }		347 }		
205	{207 }	210	349 }	348	
	{208 }		350 }		
206	271		352 }	351	
211	353		353 }		
307	317			{357	
309	275		358	{360	
310	327			{363	
314 }	334		359	363	
316 }				{357	
319	233		362	{360	
324	231			{357	
326	314		365	{360	
328	316			{357	
330	260		367	{360	
336	340			{357	
338	412	{C411	368	390	
		{C413	370 }	330	
344	230		373 }		
349 }	336				
352 }					
350	{241 }	240 350			
	{243 }				
364	273				

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
379	C391	SCPA 204 (POLI 204)	{ POLI 232 POLI 234
385 }	375	SCPA 205 (HIST 205)	HIST 205
386 }		SCPA 210 (HIST 210)	HIST 210
391	390	SCPA 211 (POLI 211)	POLI 211
392 }	364	SCPA 215	{ ECON 201 ECON 203
393 }		SCPA 301	SCPA 401
395	393	SCPA 333 (SOCI 333)	SOCI 333
396 }	366	SCPA 353 (SOCI 353)	SOCI 353
397		SCPA 355 (SOCI 355)	SOCI 355
421	420	SCPA 460 (COMS 460)	COMS 460
422	420	SCPA 461 (COMS 361)	COMS 361
436	438	SCPA 465 (COMS 465)	COMS 465
439	437		
Religion		Science and Human Affairs	
201	{ HEBR 210 HEBR 211	203	254
202	{ HEBR 250 HEBR 251	204	253
209	211	250	INTE 250, PHIL 220, PHIL 228
210	211	253	URBS C253
214	213	254	URBS C254, INTE 254
215	213	353 }	451
220	222	354 }	
226	350, 364	355 }	450
300	217	356 }	
310	331	Simone de Beauvoir Institute	
312	332	WSDB 290	WMNS 290, WMNS C290
320	303	WSDB 291	WMNS 291, WMNS C291
321	304	WSDB 298	WMNS 298
322	306	WSDB 299	WMNS 299
324 }	308	WSDB 370	WMNS 370
325 }		WSDB 380, 480	WSDB 394
336	352	WSDB 381	WSDB 398B
338	357	WSDB 382	WSDB 398F
339	358	WSDB 383	WSDB 398M
343	345, 346	WSDB 390	WMNS C393
347	318	WSDB 393	WMNS 394
348	325	WSDB 394	WMNS 393
350	314	WSDB 398	WMNS 398
351	345, 346	WSDB 399	WMNS 399
352	346	WSDB 490	WMNS 492
360	349	WSDB 491	WMNS 493
361	349	WSDB 492	WMNS 490
364	315	WSDB 493	WMNS 491
370	309, 369	WSDB 498	WMNS 498, WMNS C491, C492
374	366	WSDB 499	WMNS 499
375	363		
376	343	Sociology	
377	367	203	C200
378	370	212 }	210
379	307, 317, 344, 397....	213 }	
380	335	262 }	C260
397	354	263 }	
403	362	277	377
407	394, 397	327 }	C326
410	C499	328 }	
496	495	329 }	C340
		429 }	
School of Community and Public Affairs		333	C435
SCPA 201 }	SCPA 300	336 }	C335
SCPA 203 }		337 }	

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
338 } 339 }	C337	210	{331 332
355	ANTH 355	217	{215 216
361 } 362 }	C360	219	{220 221
374	C426	222	{300 310
402, 403	408 {402 403	234	372
406 } 407 }	C405	242	241
415	315 {313 314	265	264
Spanish		270	{471 472
200 or 201 or 202	{210 211	303	300
240 or 241 or 242	{250 251	320	423
256 } 257 }	255	322	425
306 } 307 }	305	331	430
362 } 363 }	361	331 } 332 }	210 330
365	360	332	442
403	303	334	440
406	407	336	434
412	413	340	370
421 } 422 }	431	351	390 {456 457
423 } 424 }	432	362	{444 462
441 } 442 }	440	366	466
451	450	369	{468 469
Teaching English as a Second Language		384	{382 383
EDUC 201	{TESL 224 TESL 327	387	{385 386
EDUC 454	TESL 355	452	{453 454
324	326	493	491
324	{C322 C323	494	492
330	430 498B	Urban Studies	
331	332	230 } 240 }	URBS 280
413	{C411 C412	250 } 260 }	{GEOG 299U URBS 290
424	427	333	{URBS 334 GEOG 399U
424	{C422 C423	438	{URBS 488 GEOG 438
426	385 {C382 C383 C384	Women's Studies	
433	C479	(See Simone de Beauvoir Institute)	
487	485 {C482 C483 C484		
Theological Studies			
202	222		
203	310		
204	350		
206	421		

200.2 JOHN MOLSON SCHOOL OF BUSINESS

NOTE A The use of this note after certain course descriptions indicates that there exists an equivalent course and the students who have credits for this equivalent course may not take the listed course for credits. To find out the equivalents to the listed course refer to the index below.

NOTE C The use of this note after a course description indicates that with the permission of the Department a student may take the listed course twice for credits provided that a different subject is dealt with the second time.

Course					Old Numbers and Equivalents				
Accountancy									
214	N214	211		315B, 300	250	{ 313 314 315			
217				{ 411A/B, 400 402	253		QUAN 353		
220 (120)				320Z	313		N313 { 411 QA 411 }	518Z	
221 (121)				320Z	314		N314 { 411 QA 411 }	518Z	
230 213	N213	211		313A/B, 300	325	MANA 345			
240 218	N216	{ Man 411 Fin 416 }		413B, 402	350	365			
310 323	N313	411		415B, 400	353		N353 Math 415		
320 326					354		N354 Math 415		
330 303	C403	N421		503A 421	361	316			
340 441	N441	{ Com Law 441 }		513A/B, 504	362	412			
350 414	{ N215 N315 }	{ Man 411 Fin 416 }		511B 425	371	345			
400 461	N461			509A, 507B	375	448			
407		407		507B	378	444			
420 335	C325	N314	412	419B, 408	381	323			
429	N432	431		{ 517B, 508 519B, 508 }	382	327			
430 422	N422				384	486 427			
440 442				515B, 504	385	493 417			
450 432		N433		431 433	395	488 or 490			
451	N451	{ (Computer Auditing New Name)			425	452			
468	Intl Bus	C468			445		N445 442		
470		470		560Z	446		N446 442		
490 471		471		560Z	451	416			
Administration					464	415	N415 412		
201 (101)	N201			312Z	466	414			
202 (102)	N202			312Z	477	447			
350	MARK	C350		515Z	481	424	N424 421		
Decision Sciences and Management Information Systems*					482	425	N425 422		
*NOTE: The 'QUAN' designation has been changed to 'DESC'. Formerly Quantitative Methods					484	383	423 N423 421		
222 221					485	421			
243	N243	{ Psych C315 242 Econ C221 Math 241 Stat 242 }	308Z		490	433	N433		
244	N244	{ 242 Econ C222 Stat 242 }	308Z		492	426	N426 422		
					495	{ 482 484 }			
					496	386	483 422		
John Molson School of Business — COMM Courses									
					215	DESC 243			
					217	ACCO 213			
					222	MANA 340			
					224	MARK 213 & 350			
					225	DESC 250			
					301	DESC 222			
					305	ACCO 218			
					308	FINA 214 & 315			
					315	MANA 475			
					320	COMM 410	MANA 450		
					401	COMM 310	MANA 460		

Course	Old Numbers and Equivalents					Course	Old Numbers and Equivalents						
Finance						Marketing							
200	COMM 499F					201	213 & 350						
210	COMM 499R					213	N213	{ 211, 411, 421 }	419A/B, 320				
214	314												
	215	N215	315, 413	407/A/B, 408									
314		N314	413	409B, 408	215	350	N350	{ 211, 411, 421 }	421B, 320				
315		N315	413		314								
320	424												
330	430	N430	424			352	N352	431					
350	491				452						N342	412,	451
370	467	Int Bus	C467								453	N453	{ 221, 222, 431 }
385	380	440	N440	423, 426	541B	454	N454	414,	461	521A			
395	{ 390 400 }	460	N460	429		462	Intl Bus	C462					
401		417	N417	423, 426		463	N463	481					
402	420					464	N464						
405	490	431	N431	424		465	Intl Bus	C465					
410	452	N450	423, 427	530Z		485	N485						
411	453	N450	423	530Z		491	N491						
412	419					495	490	N490					
418	N418												
450	491												
455													
465	455T												
470	467	Int Bus	C467										
481	480	461	N461	429									
Management													
211		N211	{ Com Law 211 Psyc 011 211 }	Psyc C200									
213		N213											
	214 215	N214 N215 }				Soc 211							
266						466							
313										413A/B, 414			
315										415B, 414			
340		N340	430										
341		N341	430										
343	441												
345		N345	421		470Z								
346		N346	421		470Z								
362	462	N462	432										
364	464												
365	465												
368		N368	451		503B								
369		N369	451										
401					501A								
405					505B								
407					507A								
409					509B								
447	442												
460		N460	453		511B								
461		N461	453										
463		N463	432										
464		N464	433										
465		N465	433										
466	{	N466	452										
		Intl Bus		C466									
467		N467	452										
475		N475	211		502Z								
476		N476	211		502Z								
499					560Z								

200.3 FACULTY OF FINE ARTS

NOTE A The use of this note after certain course descriptions indicates that there exists an equivalent course and the students who have credits for this equivalent course may not take the listed course for credits.

Equivalences prior to 1977-78 are not listed below. For courses with indicated equivalences

which are not listed below consult either the **Department Office, the Office of Student Affairs, Faculty of Fine Arts or the Office of the Registrar.**

NOTE C The use of this note after a course description indicates that the course may be repeated for credit. However, either the number or the letter preceding the number must differ.

Course	Old Numbers and Equivalents	
Art Education		
ARTE 220	}	ARTE 200
ARTE 230		
ARTE 320	}	ARTE 300
ARTE 330		
ARTE 352	}	ARTE 430
ARTE 354		
ARTE 432	}	ARTE 400
ARTE 434		
Art History		
ARTH 200	ARTH 284, 280, 281	
ARTH 260	ARTH 220	
ARTH 262	ARTH 347	
ARTH 263	ARTH 348	
ARTH 264	ARTH 320	
ARTH 266	ARTH 322	
ARTH 267	ARTH 234, C234	
ARTH 268	ARTH 234	
ARTH 290	ARTH 210	
ARTH 350	ARTH 320	
ARTH 352	ARTH 322	
ARTH 360	ARTH 339	
ARTH 361	ARTH 339	
ARTH 362	ARTH 440	
ARTH 363	ARTH 441	
ARTH 364	ARTH 342, 442	
ARTH 365	ARTH 443	
ARTH 366	ARTH 343	
ARTH 367	ARTH 455	
ARTH 368	ARTH 459	
ARTH 369	ARTH 458	
ARTH 370	ARTH 244, C444	
ARTH 371	ARTH 425	
ARTH 373	ARTH 427	
ARTH 388	ARTH 282	
ARTH 397	ARTH 410	
ARTH 400	ARTH 484	
ARTH 401	ARTH 495	
ARTH 402	ARTH 415	
ARTH 434	ARTH 267, C234	
ARTH 499	ARTH 480	
Art Studio		
ARTX 280	ARTX 250, 260, 270	
Art Theory		
ARTT 261	ART 261	
ARTT 460	ART 460	

Course	Old Numbers and Equivalents	
Ceramics		
CERA 230	CAFT C310, C230
CERA 330	CAFT 330
CERA 430	CAFT 430
CERA 450	{	CAFT C450
		ART C436
Cinema		
FMAN 202	FMAN 312, CINE C312
FMAN 214	FMAN 314
FMAN 224	FMAN 324
FMAN 254	FMAN 214
FMAN 305	FMAN 302, 303, 304, 313
FMAN 306	FMAN 302, 303, 304, 305, 313
FMAN 316	FMAN 498E
FMAN 319	FMAN 498B
FMAN 352	FMAN 498H
FMAN 354	FMAN 353
FMAN 402	FMAN 403, 414, CINE C414
FMAN 446, 447	FMAN 445, CINE C436
FMAN 448	CINE C428
FMAN 449	CINE C429
FMPR 231	CINE C311
FMPR 332	FMPR 331, CINE C411
FMPR 335	CINE C335
FMPR 336	FMPR 334, CINE C334
FMPR 337	CINE C437
FMPR 338	FMPR 342
FMPR 339	CINE C433
FMPR 340	FMPR 242
FMPR 341	CINE C333
FMPR 344	}	FMPR 336
FMPR 345		
FMPR 350	FMPR 498F
FMPR 432	FMPR 431, CINE C412
FMPR 438	CINE C438
FMPR 442	FMPR 498C
FMPR 446, 447	FMPR 445, CINE C436
FMPR 448	CINE C428
FMPR 449	CINE C429
FMST 200	CINE C200
FMST 211	CINE C211
FMST 212	CINE C212
FMST 214	FMST 314, CINE C426
FMST 215	FMST 315, CINE C427
FMST 217	FMST 398H
FMST 321	CINE C321
FMST 322	CINE C322
FMST 323	CINE C323

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
FMST 325	FMST 498H	DART 447 }	DART 425, DESI 425
FMST 329	CINE 329	DART 448 }	
FMST 331	FMST 498E	DART 449 }	
FMST 335	FMST 398	DART 450 }	DART 410, 411
FMST 343	FMST 498B	DART 451 }	
FMST 421	FMST 324	DART 452 }	
FMST 422	CINE C422	DART 491 }	DART 400, DESI 411, 431, DART 490
FMST 423	CINE C423	DART 492 }	
FMST 425	FMST 498J		
FMST 426, 427.....	FMST 425, CINE C436	Drama Therapy	
FMST 428	CINE C428	DTHY 301	TDEV 421, DFHD 421, DINE 420
FMST 429	CINE C429		
Computation Arts		Drawing	
CART 251	DFAR 251	DRAW 420	ART 320
CART 252	DFAR 252	DRAW 470	ART C436
CART 253	DFAR 253, 353		
CART 351	DFAR 350, 351	Faculty of Fine Arts	
CART 352	DFAR 350, 352	FFAR 250	IDYS 250
CART 354	DFAR 354	FFAR 251	IDYS 251
CART 355	DFAR 355	FFAR 252	IDYS 252
CART 356	DFAR 356	FFAR 390	FFAR 399G
CART 357	DFAR 357	FFAZ 398K	FFAR 398K
CART 358	DFAR 358		
CART 360	DFAR 360	Fibres	
CART 451	DFAR 450, 451	FBRs 240	CAFT C240
CART 452	DFAR 450, 452	FBRs 260	CAFT C260
CART 453	DFAR 453	FBRs 340	CAFT C340
CART 454	DFAR 454	FBRs 360	CAFT C360
CART 455	DFAR 455	FBRs 370	FBRs 470, ART C440
CART 456	DFAR 456	FBRs 440	CAFT C440
CART 457	DFAR 457	FBRs 450 }	CAFT C450 ART C436
CART 458	DFAR 458	FBRs 460	CAFT C460
CART 460	DFAR 460	FBRs 480	FBRs 460 or FBRs 440
Contemporary Dance		Interdisciplinary Studies	
DANC 201	DANC 200	IDYS 200	INRA 300
DANC 205	DANC 210	IDYS 300	INRA 400
DANC 301	DANC 300	IDYS 491	INRA 391
DANC 305	DANC 310	IDYS 492	INRA 392
DANC 350	DANC 398L		
DANC 401	DANC 400	Interdisciplinary Studies in Sexuality	
DANC 405	DANC 410	FASS 291	FASS 391
Design		Intermedia/Cyberarts	
DART 221 }		IMCA 310	VDEO 300
DART 223 }		IMCA 320	EART 300
DART 225 }	DART 200, DESI 200	IMCA 410	VDEO 400
DART 229 }			
DART 280 }		Music	
DART 291 }	DART 210, DESI 230, DART 290	EAMT 203 }	EAMT 205, 398B, 398C, 399A
DART 292 }		EAMT 204 }	
DART 331 }		EAMT 205	CMUS 310
DART 380 }	DART 300, DESI 311	EAMT 305	CMUS 410
DART 381 }		EAMT 350	CMUS 350
DART 391 }		EAMT 406	CMUS 446
DART 392 }	DART 310, DESI 321, DART 390	EAMT 407	CMUS 447
DART 441 }		EAMT 451, 452	CMUS 450
DART 442 }	DART 422, DESI 422	INMS 209, 250	MUSI 210, INMS 498H, 499G
DART 443 }		INMS 210	INMS 310
DART 444 }	DART 424, DESI 424	INMS 251	INMS 250, MUSI 210
DART 445 }		INMS 252	INMS 250, MUSI 210
DART 446 }	DART 423	INMS 311	INMS 310
		INMS 320	INMS C321, C322

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
INMS 351	INMS 350, 200	Sculpture	
INMS 352	INMS 350, 200	SCUL 210	SCUL 200
INMS 360	CMUS 320 CMUS C321, C322	SCUL 310	SCUL 300
INMS 410	INMS C411	SCUL 396	SCUL 398B
INMS 451	INMS 450, 300	SCUL 410	SCUL 400
INMS 452	INMS 450, 300	SCUL 450	ART C436
INMS 460	CMUS 420 CMUS C421, C422		
JAZZ 200	CMUS 200 CMUS 498G, 498H	Theatre	
JAZZ 301	INMS 498E	DFTT 209 }	DFTT 250
JAZZ 302	INMS 332	DFTT 210 }	
JAZZ 305	CMUS 330	DFTT 305	SCEN 305
JAZZ 401	INMS 431	DFTT 315	SCEN 302, C310
JAZZ 402	INMS 432	DFTT 326	SCEN 322
JAZZ 405	CMUS 430	DFTT 336	SCEN 306
JPER 220	CMUS 300	DFTT 337	SCEN 307
JPER 321	CMUS 401	DFTT 414	SCEN 411, C410, C400, C420
JPER 330	MPER 330	DFTT 451, 452 ...	DFTT 450
JPER 341	MPER 498L	DFTT 498	SCEN 498
JPER 421	CMUS 402	DINE 412	DINE C410
JPER 430	MPER 430	PROD 201	PROD C200, C201
JPER 441	MPER 498O	PROD 311	PROD C302
MHIS 200 {	MHIS 201 MHIS 498R	PROD 408	PROD 308
	MHIS 202 MHIS 498S	PROD 409	PROD 309
MHIS 301 {	MHIS 311 MHIS C301	PROD 411	PROD C402
	MHIS 312 MHIS 498M, C301	TDEV 209	DFHD 209, DINE 200
MHIS 313	MHIS 498G	TDEV 210	DFHD 210, DINE 200
MHIS 315	MHIS 498P	TDEV 302	DFHD 302, DINE 302
MHIS 316	MHIS 498N	TDEV 303	DFHD 303, DINE 303, 202
MHIS 317	MHIS 498K	TDEV 311	DFHD 311, DINE 498F
MPER 201	MPER 200 MPER C201	TDEV 312	DFHD 312, DINE 412 or 413
MPER 231	MPER 220, 221 .. MPER C201	TDEV 405	DFHD 405, DINE 405
MPER 301	MPER 300, 498 .. MPER C301	TDEV 415	DFHD 415, DINE 415
MPER 331	MPER 498K	TDEV 421	DFHD 421, DINE 420
MPER 332	MPER 320, 498	TDEV 431	DFHD 431
MPER 370	MPER C431, C432	THEA 211 }	THEA 240
MPER 390	MPER C330	PROD 211 }	
MPER 401	MPER 400, 498	THEA 216	THEA C200, C281
MPER 431	MPER 498Q	THEA 303	THEA 300, C300
MPER 432	MPER 420, 498	THEA 312	THEA 403
MPER 470	MPER C433, C434	THEA 321	THEA C320
MPER 490	MPER C430	THEA 404	THEA 304 ... THEA 300, C300
MPER 498A	MPER 431	THEA 411	TPER C305
MUSI 200	INMS 499D	THEA 412	TPER C405
MUSI 265	MUSI 398A	THEA 420	TPER C402
		THEA 422	THEA 322, C320
Painting		TPER 209, 210.....	TPER 200, 201, 202
PTNG 420	ART 320	TPER 216	TPER C204
PTNG 430	PTNG 499A	TPER 301, 302.....	TPER 300... TPER 223, 224, 306 & 307
PTNG 440	PTNG 499B	TPER 313	TPER 213
PTNG 460	ART 420, ARTH 267, C234	TPER 316	TPER 498P
PTNG 470	ART C436	TPER 323	TPER 214
		TPER 324	TPER 313
Photography		TPER 325	TPER 411
PHOT 210 {	PHOT 200 PHOT C201, C301	TPER 333	TPER 413... TPER C406, C402
	PHOT 221 PHOT 321, 498J	TPER 345	TPER 215 TPER C203
	PHOT 322	TPER 355	TPER 315
PHOT 211 }	PHOT 200	TPER 401, 402.....	TPER 400... TPER 223, 224, 306 & 307
PHOT 301 }			
PHOT 311, 312	PHOT 310	Women and the Fine Arts	
PHOT 321, 322	PHOT 320	WFAR 320	FFAR 320, 399A
PHOT 331	PHOT 498M	WFAR 420	FFAR 420
PHOT 332	PHOT 498K		

200.6

FACULTY OF ENGINEERING AND COMPUTER SCIENCE

NOTE: For old course numbers used prior to 1986-87 see Undergraduate Calendar 1985-86.

NOTE: The use of "C" in the course prefix is discontinued. Unless otherwise indicated below, a course previously with a C prefix is equivalent to the identically numbered one without the C prefix; however, credit value may differ.

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
Engineering		COEN 313 COEN 414	
ENGR 211	ENGR 212	COEN 315	COEN 412
ENGR 311	EMAT 311	COEN 316	COEN 416
ENGR 342	ENGR C341	COEN 451	ENCS 454
ENGR 343	CIVI C354	COEN 452	ENCS 455
ENGR 344 & 345	CIVI C353		
ENGR 391	EMAT 391	Electrical Engineering	
ENGR 401	ENGR 403	ELEC 261	EMAT 252
ENGR 451	CIVI C491	ELEC 273	ENGR 273
ENGR 452	CIVI C452	ELEC 275	ENGR 275
ENGR 455	CIVI C455	ELEC 361 & ELEC 341 & EMAT 312 & 362 & 370	ENGR 274
		ELEC 362	EMAT 332
Engineering & Computer Science		ELEC 370	ENGR 370
ENCS 245	ENGR C245	ELEC 372	ENGR 372
ENCS 281	ENGR C281	ELEC 424	ENCS 456
ENCS 282	ENCS C281	ELEC 481	ENGR 471
		ELEC 482	ENGR 472
Engineering Mathematics		ELEC 498	ELEC C482
EMAT 213	EMAT 212		
EMAT 233	EMAT 232	Industrial Engineering	
EMAT 332 & ELEC 361	EMAT 312	INDU 323	ENGR 412
		INDU 412	INDU 310
Building Engineering		INDU 471	INDU 371
BCEE 231	ENGR 231	INDU 490	INDU 480
BCEE 232	ENGR 232		
BCEE 331	ENGR 331	Mechanical Engineering	
BCEE 342	ENGR 342	MECH 211	ENGR 211 & MECH 211
BCEE 343	ENGR 343	MECH 333	ENGR 311
BCEE 344	ENGR 344	MECH 343	MECH 341 & 342
BCEE 345	ENGR 345	MECH 361	ENGR 362
BCEE 451	ENGR 451	MECH 370	ENGR 370 or 274 or ELEC 341
BCEE 452	ENGR 452	MECH 371	ENGR 372
BCEE 455	ENGR 455	MECH 372	ELEC 318
BLDG 212	BLDG 211	MECH 413	MECH 342
BLDG 365	BLDG 364	MECH 460	ENGR 460
BLDG 366	BLDG 363	MECH 473	ENGR 473
BLDG 463	BLDG 461	MECH 475	ENGR 475
		MECH 490	ENGR 481
Civil Engineering			
CIVI 212	CIVI 211	Computer Science	
CIVI 432	CIVI 431	COMP 220	COMP 224 & 285, or COMP C221
CIVI 484	CIVI 489	COMP 228	COMP 220
		COMP 238	COMP 231
Computer Engineering		COMP 245	COMP 244 & 291, or COMP C241
COEN 241	COMP 244	COMP 248	COMP 215
COEN 242	COMP 291	COMP 249	COMP 245
COEN 243	COEN 240 & 241	COMP 292	COMP C251
COEN 311	COEN C411	COMP 294	COMP 391
COEN 312	COEN C413		

Course	Old Numbers and Equivalents	Course	Old Numbers and Equivalents
COMP 295	COMP 392		
COMP 296	COMP 393		
COMP 297	COMP 394		
COMP 325 & 386	COMP C325 & C426		
COMP 326	COMP C322		
COMP 327	COMP 325 & 385, or COMP C443		
COMP 343 & 385	COMP C443		
COMP 353	COMP C453		
COMP 392	COMP C341		
COMP 421	COMP 427 or COMP 486		
COMP 423 & 485	COMP C423		
COMP 427 & 486	COMP C427		
COMP 446	COMP 423		
COMP 467	COMP 437		

200.7 CREDIT FOR COURSES WITH STATISTICAL CONTENT

Some courses in statistics offered by Departments in the Faculty of Arts and Science, and the John Molson School of Business have common elements, but are not necessarily equivalent. A hierarchical order has therefore been established. The possible substitution of courses for each other proceeds from top to bottom of Figure 1.

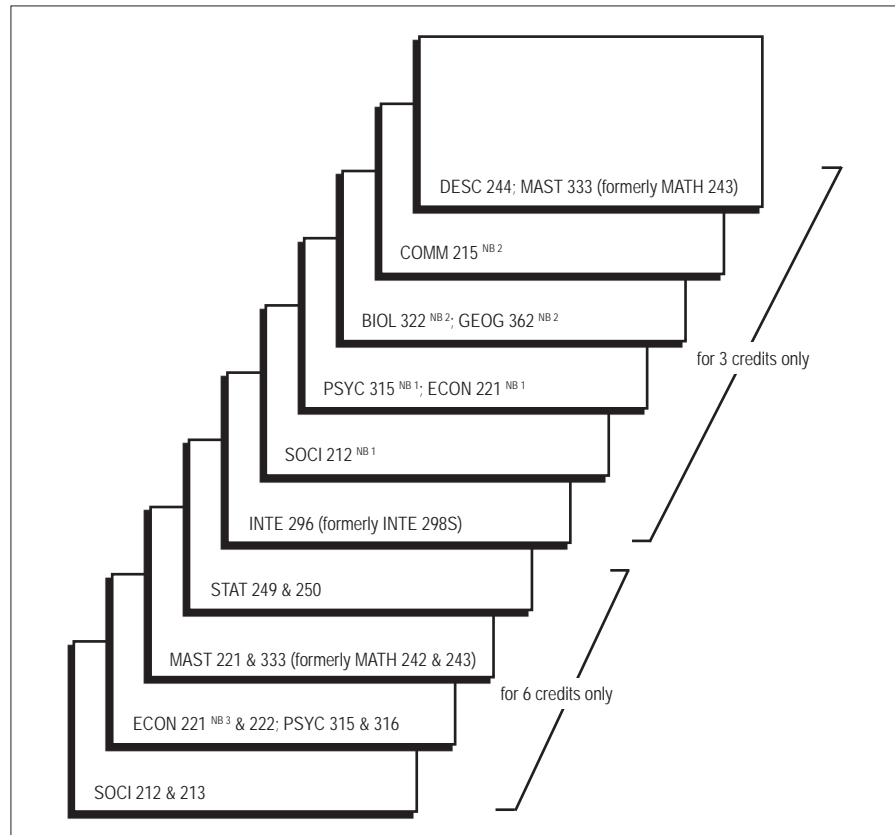


Figure1

NB 1: Students transferring to programs in Economics, Psychology or Sociology may substitute an equivalent or higher level course for ECON 221, PSYC 315 or SOCI 212 respectively.

NB 2: Students who have completed ECON 222 or PSYC 316 and transfer to programs requiring COMM 215, BIOL 322 or GEOG 362 will be exempted from these courses and may not take them for credit.

NB 3: Students who have completed SOCI 212 and 213 and transfer to the Economics program will be exempted from ECON 221 and may not take this course for credit.

No course may be substituted for any course which appears in a box above it in Figure 1.

Any six-credit pair of statistics courses may be substituted for any other six-credit pair which is shown in the same box or in a box which is beneath it in Figure 1.

Any six-credit pair of statistics courses may be substituted for any three-credit introductory statistics course.

Any three-credit statistics course may be substituted for any course which is shown in the same box, or in a box which is beneath it in Figure 1.

No more than six credits will be awarded among the six-credit pairs, and no more than three credits will be awarded among the three-credit courses.



awards, prizes and scholarships

300.1 UNDERGRADUATE AWARDS

300.2 ENTRANCE SCHOLARSHIPS

300.3 ENTRANCE BURSARIES

300.4 IN-COURSE SCHOLARSHIPS

300.5 IN-COURSE BURSARIES

section 300



300

AWARDS, PRIZES AND SCHOLARSHIPS

300.1 UNDERGRADUATE AWARDS

At Concordia University, undergraduate scholarships, bursaries, and awards are overseen and administered by the Undergraduate Scholarship and Awards Committee, as mandated by the University Senate. The Undergraduate Scholarship and Awards Committee is composed of a Chairperson, four faculty members, the Director of the Financial Aid and Awards Office, and two student representatives, with other Financial Aid and Awards Office staff members in supporting roles.

Students may hold **only one** of the following types of awards during a given academic year:

- Entrance Scholarships
- Entrance Bursaries
- In-Course Scholarships
- In-Course Bursaries

Holding more than one of these scholarships or bursaries is not allowed unless expressly authorized by the Undergraduate Scholarships and Awards Committee.

The majority of scholarships, bursaries, and awards are available to full-time students in bachelor's programs, who are Canadian Citizens or Permanent Residents. Further information is available on the Financial Aid and Awards Office website at <http://financialaid.concordia.ca>.

Scholarship, award, and bursary programs are active during the Regular Session only. Regular Session is defined in §16.1.1 as the Fall and Winter Terms of a given academic year. No scholarships, awards, or bursaries are issued during the Summer Term.

Full-time and part-time status for all scholarships, bursaries, and awards is determined according to candidates' credit load over the Regular Session only (i.e. Fall and Winter). Where scholarship, award, and bursary programs are concerned, Summer-session credit loads cannot be combined with Fall/Winter credits in the determination of full-time or part-time status. In general, registration in a total of 24 credits or more during the Regular Session equates to full-time status, while registration in less than 24 credits equates to part-time status. As a number of scholarships, awards, and bursaries are issued in two equal instalments during the Regular Session (one instalment in Fall, and one instalment in Winter), candidates are generally advised to enrol in a minimum of 12 credits in the Fall Term, and another 12 credits in the Winter Term in order to maintain their eligibility for those scholarships, bursaries, and awards which require full-time status.

Authorized Co-op work terms and exchange programs are normally considered equivalent to full-time on-campus registration. Wherever possible, clients of the Access Centre for Students with Disabilities who are registered in a part-time credit load may be considered as full-time students in the event of candidacy for scholarships, awards, and bursaries.

Scholarships

Entrance Scholarships are available to full-time students entering university studies for the first time. Candidates are selected by Faculties/Schools in co-operation with the Financial Aid and Awards Office, and in certain cases, in co-operation with academic departments as well. Selection is automatic, based on academic ranking as assigned by the University in the course of admission file processing. For some Entrance Scholarships, selection is based on submission of a portfolio and/or other specific materials. Only selected candidates are notified.

In-Course Scholarships are available to students who have completed the previous academic year in full-time study at Concordia University. A limited number are open to part-time students. The majority are available to Canadian Citizens and Permanent Residents only. Most In-Course Scholarships are automatically awarded by the Undergraduate Scholarships and Awards Committee on the basis of the student's grade point average achieved at Concordia during the preceding academic year. Some In-Course Scholarships require students to apply; others have additional eligibility criteria such as contribution to student life, or enrolment in a particular study discipline.

Bursaries

Entrance Bursaries are available to students entering university studies for the first time. They require completion of an Entrance Bursary application form, which must be submitted along with various supporting documents directly to the Financial Aid and Awards Office. Eligibility is determined following a financial needs test, a review of the candidate's academic ranking as assigned during admission application processing, and an appreciation of the applicant's personal statements on the Entrance Bursary application form.

In-Course Bursaries are available to students who have completed at least one academic year of studies in their undergraduate program at Concordia University. The majority of In-Course Bursaries are restricted to full-time students; however, a limited number are open to part-time students. In-Course Bursaries are awarded on the basis of acceptable academic standing (minimum Grade Point Average of 2.00), financial need, and applicants' personal statements. Other eligibility requirements or conditions may apply in some cases. The In-Course Bursary program is not open to newly admitted students in their first year of studies at the University.

Awards

Awards are generally similar to scholarships, except that they have one or more additional eligibility criteria, such as a letter of intent or an applicant statement, contribution to student life at the University, or a particular level of performance in a certain course. Most are restricted to students in particular degrees or concentrations. In many cases, there is no specific grade point average requirement, although all candidates must be in satisfactory academic standing. All awards are of the In-Course type, either under the In-Course Scholarships or In-Course Bursaries rosters, open to currently enrolled students. Selection is made by the Financial Aid and Awards Office. In some cases, selection is also made on the advice of University departments, according to the eligibility specifications of each award.

External Scholarships, Bursaries, and Awards

A number of corporations, industries, and public or private organizations outside of Concordia University have various scholarships, bursaries, and award programs available to Concordia students. These external bodies include NSERC (Natural Sciences and Engineering Research Council of Canada), AUCC (Association of Universities and Colleges of Canada), and many others. Eligibility criteria vary greatly. Current and upcoming external scholarships, bursaries, and awards are described in information bulletins posted at the Financial Aid and Awards Office.

Establishing New Scholarships, Bursaries, and Awards at Concordia University

Donors interested in establishing new undergraduate scholarships, bursaries, and awards at Concordia University are invited to call or write to:

Office of University Advancement and Alumni Relations
Concordia University
1455 De Maisonneuve Blvd. West (FB 520-38)
Montreal, Quebec
H3G 1M8

Fax: 514-848-2826

Dominique McCaughey
Director, Special Initiatives
Office of University Advancement and Alumni Relations
514-848-2424 ext. 5205

300.2 ENTRANCE SCHOLARSHIPS

Entrance Scholarships are available to full-time students entering university studies for the first time. Candidates are selected by Faculties/Schools in co-operation with the Financial Aid and Awards Office, and in certain cases, in co-operation with academic departments as well. Selection is automatic, based on academic ranking as assigned by the University in the course of admission file processing. For some Entrance Scholarships, selection is based on submission of a portfolio and/or other specific materials. Only selected candidates are notified.

A number of Entrance Scholarships are restricted to students in particular areas of study. The majority of these awards do not require submission of an application — candidates are selected by the Faculties/Schools during admission processing. For detailed information on the awards listed below, please visit the Financial Aid and Awards Office website at <http://financialaid.concordia.ca>.

- Aaron M. Fish Scholarship of Excellence in Mechanical Engineering
- Associates of Concordia, Alex C. Duff Scholarship
- Bob McDevitt Award
- Bourse d'études Hydro-Québec de l'Université Concordia
- Canada Post Corporation Scholarships in Engineering
- Concordia Hong Kong Foundation Ltd. Scholarship
- Concordia University Alumni Association Entrance Scholarship
- Concordia University Memorial Endowment Entrance Scholarship
- Concordia University Shuffle Entrance Scholarships

- Groupe LGS Inc. Scholarships in Engineering
- Harvey Shulman Memorial Entrance Scholarship
- Henry I. Chinks Memorial Entrance Scholarship
- Iuticone Family Entrance Scholarship
- Liberal Arts College Entrance Scholarships
- Lindsay Chrysler Award
- Lorne and Ann Tierney Memorial Award in Journalism
- Loyola Alumni Association Inc. Education Grant
- Loyola Foundation Inc. Entrance Scholarships
- Luigi Liberatore Undergraduate Entrance Scholarship
- Normand D. Hébert Scholarships in Engineering and Business
- Omer DeSerres Undergraduate Awards for Excellence in Visual Arts
- Pierre Sévigny Scholarship
- Prix d'Excellence en Études Urbaines Cardinal Hardy
- Puma Canada Award
- Reader's Digest Scholarship in Journalism
- Richard Descarries Entrance Scholarship
- Samuels Family Scholarship
- Schouela Family Entrance Scholarship
- Shirley and Leo Goldfarb Entrance Scholarship
- Theatre Department Entrance Scholarship
- Vince Sirois Memorial Scholarship

300.3 ENTRANCE BURSARIES

Entrance Bursaries are available to students entering university studies for the first time. They require completion of an Entrance Bursary application form, which must be submitted along with various supporting documents directly to the Financial Aid and Awards Office. Eligibility is determined following a financial needs test, a review of the candidate's academic ranking as assigned during admission application processing, and an appreciation of the applicant's personal statements on the Entrance Bursary application form.

Most Entrance Bursaries are restricted to students in a particular area of study, or they may have specific eligibility requirements. For detailed information on the awards listed below, please visit the Financial Aid and Awards Office website at <http://financialaid.concordia.ca>.

- Bruce Le Dain Fine Arts Bursary
- Carolyn and Richard Renaud Entrance Bursaries
- Cedar Avenue Music Bursary
- Cervi-Santos Entrance Bursary
- Concordia University Centre for Mature Students Entrance Bursary
- Contemporary Dance Entrance Bursary
- CUAA John Molson School of Business Chapter Entrance Bursary
- E. Serdars Award in Environmental Science
- Edward Lee Hambleton Memorial Entrance Bursary
- Gabrielle Rinfret Murphy Bursary
- Garry Milton and Wendy Hedrich Bursary
- George and Henry Tutsch Entrance Bursary
- George J. Rosengarten o.c. Entrance Bursary
- Gosselin & Martin Adopt-A-Student Entrance Bursary
- Howard Davidson Bursary
- Joan and Lindsey Finney Entrance Bursary
- John Troli Jr. Bursary
- Louis and Verna Ashby Memorial Entrance Bursary
- Louis J. Duhamel Entrance Bursary
- MAR-KIN Foundation Entrance Bursary
- Peter Harasty Entrance Bursary
- Phil Shore Memorial Entrance Bursary
- Pierre Morin and Josée Dupont Entrance Bursary
- Richard T. Stilwell Sr. Memorial Entrance Bursary
- Ruth and David Steinberg Entrance Bursary
- Sister Eileen McIlwaine Memorial Entrance Bursary For Single Mothers
- South Shore University Womens' Club Bursary
- T.J. Madden Bursary
- Walter A. Stanford Entrance Bursary
- Zwaig Family Bursary

300.4 IN-COURSE SCHOLARSHIPS

In-Course Scholarships are available to students who have completed the previous academic year in full-time study at Concordia University. A limited number are open to part-time students. The majority are available to Canadian Citizens and Permanent Residents only. Most In-Course Scholarships are automatically awarded by the Undergraduate Scholarships and Awards Committee on the basis of the student's last Annual Grade Point Average achieved at Concordia during the preceding academic year. Some In-Course Scholarships require students to apply; others have additional eligibility criteria such as contribution to student life, or enrolment in a particular study discipline.

For detailed information on the awards listed below, please visit the Financial Aid and Awards Office website at <http://financialaid.concordia.ca>.

- A. Ross Seaman Memorial Scholarships
- a.s.a. Ani-Award
- Ada Israel Memorial Scholarship
- Alain Award in Electroacoustics
- AMS John Crawford Award
- André Bazin/George Sadoul Film Award
- Ann Kerby Scholarship for Students With Disabilities
- Anne Fish Award in Art Education
- Anne M. Galler Memorial Scholarship
- Arts & Science Grad Class Program Graduating Student Award
- Association of Alumni of Sir George Williams University Inc. Scholarships
- Athletic Therapy Award of Excellence
- Bank of Montreal Undergraduate Scholarships
- BCA Publication Scholarship in Finance
- BPW Montreal Judith Litvack Women's Scholarship
- Brenda Carter and David Wheeler Memorial Award
- Brian Slack Award in Urban Studies
- Brian T. Counihan Scholarship for Outstanding Contribution to Student Life
- Business Development Bank of Canada Scholarship in Journalism
- CAE Scholarships in Engineering Excellence
- Campaign for a New Millennium Student Contribution Scholarship
- Canadian Irish Studies Foundation Scholarships
- Canadian Women's Press Club (Montreal Branch) Scholarship
- Cecil Buller – John J.A. Murphy Scholarship in Drawing
- Charles Ellison – Stanley Aléong Award for Jazz Studies
- Colors of Concordia Award
- Commerce and Administration Students' Association Awards
- Compton-Lamb Memorial Scholarship
- Concordia University 25th Anniversary Scholarship
- Concordia University Alumni Association Inc. Scholarship
- Concordia University Institute for Co-operative Education Scholarship
- Concordia University Institute for Co-operative Education Work Term Stipend
- Concordia University Retired Faculty and Staff Scholarships
- Concordia University Used Book Fair Scholarship
- Couleur Jazz Award in Music
- Crevier-Bronstetter Award
- Cynthia Gunn Journalism Award
- Danielle Morin Award
- David Abramson Scholarship
- David Frost Memorial Scholarship
- de Sève Cinema Scholarships
- Deirdre Annis Mark Award for Translation Studies
- Don Arioli Award
- Don McGillivray Memorial Prize in Explanatory Journalism
- Donald L. Boisvert Scholarship for Gay and Lesbian Studies
- Dr. Alex Vincent Scholarships in Psychology
- Dr. Ed Enos Athletic Excellence Award
- Dr. Oscar Peterson Jazz Scholarship
- Dr. Ronald Calderisi Scholarship in Biochemistry
- Enterprise Rent-A-Car Scholarship
- Eric Harrison Alumni Award
- Eric Poteet Scholarship in Finance
- Faculty of Fine Arts Development Fund Scholarships

- Father Francis O'Brien Football Award
- Frances and David Rubin Scholarship
- Frank B. Walker Journalism Awards
- Frank Knowles Scholarship in Accountancy
- Friends of Concordia Scholarship
- Fuller Landau Scholarship in Accounting
- Garnet Menger Award
- Geary Family Football Award
- George and Helen Economides Scholarship
- Georgian Hockey Award In Memory of Paul Lemire
- Gerald, Maria, and Georginia Daoussis Scholarship
- Gianni Forlini Award
- Gordon Ritchie Scholarship
- Graham Marks Memorial Award
- Griffintown Award
- Gunther Brink/Petro-Canada Scholarship
- Harry and Grace Colle Scholarship
- Harry Clinch Award in Geography
- Heather and Erin Walker Humanitarian Award
- Heather Walker Memorial Scholarship
- Helen McNicoll Art Prize Established by Betty Ann Elliott
- Henry F. Hall Scholarship
- Howard Gilmour Scholarship
- Hugh and Trudi Le Caine Award in Electroacoustics
- Inspec-Sol Scholarship
- Irving Layton Award for Creative Writing
- J. Terrance Brennan and Kevin T. Thornhill Scholarship for Gay and Lesbian Studies
- Jaan Saber, Phoivos Zogas Memorial Scholarship
- Jack L. Cummings Scholarships
- James Marchant Xe-NOR Human Resource Scholarship
- James McQueen Scholarship
- James R. Yeatman Scholarship
- Jean-François Bourassa Memorial Award
- John and Sophia Economides Scholarship
- John Molson International Business Scholarship
- John W. O'Brien Scholarship
- John W. Sancton Memorial Award
- Kodak Scholarships
- Kornblatt Scholarships
- La bourse d'excellence Marthe Catry-Verron
- Laurie Brodrick Scholarship
- Le Château Scholarship
- Le Château Stores Scholarship
- Leah Sherman Award in Art Education
- Les Equipements Twin Scholarship in Operations Management
- Leslie and Kaye Jowett Scholarship
- Lewis Harris Memorial Award
- Liberal Arts College Scholarships
- Lillian S. Robinson Scholarship in Women's Studies
- Lois and Stan Tucker Scholarship
- Louis Beaulieu Scholarship in Management
- Lucille Irvine Memorial Scholarship
- Magil Construction Ltd. Scholarships
- Magnus Flynn Scholarship
- Mair Verthuy Scholarship
- Mario Lecaldare Scholarship
- Mark Steven Beharry Scholarship in Finance
- Marlene Pring Memorial Scholarship
- Matthew Czerny Award
- Max and Jessie Kaufman Memorial Scholarship in Judaic Studies
- McGrath-Smith Memorial Scholarship
- McLean Budden Scholarship
- Mel Hoppenheim Award
- Meloche Monnex Inc. Scholarship
- Mildred B. Lande Prize for Service to the Community
- Mirabaud Canada Scholarship

- MIX 96 – Nick Auf der Maur Memorial Scholarship
- Nadia Gagliano Student Teaching Award
- Nawaf Al-Rufaie Scholarship in Communication Studies
- Nicholas Racz Memorial Scholarship
- Nicolas-Diniacopoulos – BBC News Tapes Project Scholarships
- Norman McLaren Film Animation Scholarship
- Oliver Jones – Stanley Aléong Award for Jazz Studies
- P.T.R. Pugsley Memorial Scholarship
- Pageau, Morel et Associés Scholarship
- Pariso Scholarships in Communication Studies
- Patrick Phelan and Adelina Giannascoli Scholarship In Memory of Danny Phelan
- Patrick Phelan Scholarship
- Paul Fazio Building Engineering Undergraduate Award
- PEAK Financial Group Scholarship
- Peter Glasheen Memorial Scholarship
- Peter Matthews Memorial Award
- Philip Russel George Award
- Playwriting Award
- Political Science Jean H. Picard Foundation Scholarships
- Prix d'Excellence en Études Urbaines Cardinal Hardy
- Professor Carmine Di Michele Scholarships
- Reverend John C.T. Johnson Memorial Scholarship
- Richard J. Renaud Athletic Awards
- Richard Laurence Weldon Scholarship
- Richard M.H. Cheng Award
- Richter, Usher, and Vineberg Scholarship
- Risk Management Association (Montreal Chapter) Award in Finance
- Robert Daniel Ball Memorial Award
- Rogers Sportsnet Mentorship Award
- Rogers Sportsnet Scholarship
- Roman Fee Theatre Award
- Ron Meisels Scholarship
- Russell Breen Scholarship
- Ruth Louise Vaughan Memorial Scholarship
- Samson Bélair/Deloitte & Touche Scholarship
- Sandra and Leo Kolber Scholarships in Cinema
- Sean Wall Memorial Scholarship
- Sharer Scholarship
- Silas Katz Memorial Scholarship
- SR Telecom Scholarship
- Stacie Lee Bessner Memorial Scholarship
- Stan Heaps Scholarships
- Stelcner Family Prize
- Stelvio Software Engineering Excellence Scholarship
- Steve Metaxas Scholarship in Finance
- Stevenson Colour Scholarship
- Susan Levin-Woods Scholarship
- Susan Schouten Documentary Film Award
- Tau Kappa Epsilon Fraternity 40th Reunion Scholarship
- The Edge Award
- Thomas More Scholarship
- Trevor W. Payne, C.M. Scholarship in Black Music
- V.C. Saxena Student Essay Competition
- Vincent, Olga, and Denis Nicolas-Diniacopoulos Scholarships
- William and Nancy Turner Foundation Award
- William K. Everson Award
- William Schiff Scholarship
- Zeidan Family Scholarship
- Zlatko Grgic Award

300.5 IN-COURSE BURSARIES

In-Course Bursaries are available to students who have completed at least one academic year of studies in their undergraduate program at Concordia University. The majority of In-Course Bursaries are restricted to full-time students; however, a limited number are open to part-time students. In-Course Bursaries are awarded on the basis of acceptable academic standing (minimum Grade Point Average

of 2.00), financial need, and applicants' personal statements. Other eligibility requirements or conditions may apply in some cases. The In-Course Bursary program is not open to newly admitted students in their first year of studies at the University.

Many In-Course Bursaries are restricted to students in a particular area of study, or they may have specific eligibility requirements. For detailed information on the awards listed below, and for information concerning the availability of this year's In-Course Bursary application, please visit the Financial Aid and Awards Office website at <http://financialaid.concordia.ca>.

- Alfred Pinsky Emergency Bursary
- Andrea Bolger Adopt-A-Student Bursary
- Arab World International Bursary
- Arianne Johnston-Kip Little Memorial Bursary
- Association of Alumni of Sir George Williams University Inc. Bursaries
- Bank of Montreal Undergraduate Bursaries
- Barbara Koch Bursary
- Berlettano Family Bursary
- Birks Family Foundation Bursaries
- Brahm and Jo Jo Gelfand Bursary
- Bruno and Stella Lebel Fine Arts Bursary
- Buddy Shizgal Abrams Memorial Bursary
- C.J. Hewitt Awards
- C.J. Kouvertaris Bursary In Hellenic Studies
- Campaign for a New Millennium Student Contribution Bursary
- Canfornav Bursary
- Carolyn and Richard Renaud Bursaries
- Cecilia Chrysler Award
- Chadha Family Foundation's Indo-Canadian Award
- Christopher Jackson Bursary
- Cinmar Adopt-A-Student Bursary
- Concordia Memorial Golf Tournament Endowed Bursary
- Concordia University Alumni Association Inc. Bursaries
- Concordia University Part-Time Faculty Awards
- Concordia University Retired Faculty and Staff Bursaries
- Concordia University Shuffle In-Course Bursaries
- Continuing Education Staff Bursary
- Cornelia Bingulac Emergency Bursary for Part-Time Students
- Deans Knight Capital Management Awards
- Deborah and Michael Hinton Bursary
- Derek C. Hannaford Bursary
- Di Palma-Piperni Family Bursary
- Donald Buchanan Bursary
- Donald L. Peets Bursary
- Dr. Ben Weider Bursary
- Dr. Henry P. Habib In-Course Bursary
- Dr. Irving R. Tait Bursary
- Ecosense and Concordia University Alumni Association Inc. Bursary
- Elie Assayag Memorial Bursary
- Ellen Greenwood Ornstein Memorial Bursary
- Emilia Di Raddo Bursary
- Engineering and Computer Science Graduating Class Bursary
- Ernest Haznoff Memorial Bursary
- Ethel Campbell-P.E.O. Memorial Bursary
- F.P. Higgins Memorial Bursary
- Faculty of Fine Arts Development Fund Bursaries
- Fred Weinstein Bursary
- Friends of Concordia Bursary
- George Balcan Bursary for Painting and Drawing
- Gino Martel Bursary in Finance
- Great-West Life Business Education Award
- Havie Chinks Bursary in Theatre
- Henry P. Habib Undergraduate Bursary in Political Science
- Idées au Cube Bursary
- ITT Flygt Bursary in Engineering
- J & S Schwarz Bursary
- J.P. Copland Memorial Bursary
- Jack Bermingham Memorial Bursary

- Jack Lehman Bursary
 - James Saya Memorial Bursary
 - Japanese-Canadian Bursary
 - Jean Amiouny Bursary
 - Jean-Paul Vallée/Royal LePage Bursary
 - Jeffrey David Skowronski Dramatic Arts Bursary
 - Joel Jeffrey Birenbaum Memorial Bursary
 - John E. Parisella Family Bursary
 - John Jackman Bursary
 - John Jessop Memorial Bursary
 - Joseph Gilbert Joyce Memorial Bursary
 - Kevin O'Mara Memorial Bursary
 - Kornblatt Bursaries
 - Light Family Bursary
 - Louis Goldstein Memorial Bursary
 - Loyola Foundation Inc. Bursaries
 - Maria Ildiko Beardsley Memorial Bursary
 - Marjorie McInnes Grant Cooper Bursary
 - Marjorie S. Dewitz Bursary
 - Mark Roberts Tinker Bursary
 - Maurice Gold Memorial Bursary
 - Maximilian Berkeley Britt Ingram Bursary
 - Mireille and Murray Steinberg Awards
 - Miriam Aaron Roland Emergency Bursary
 - Monique Gupta Bursary
 - Morley and Rita Cohen Foundation Bursaries
 - Mr. and Mrs. Vern DeGeer Bursary
 - Myer F. Pollock Bursary
 - Nancy Torbit Memorial Bursary
 - Nathan H. Messer Bursaries
 - Nick Auf der Maur Award
 - Nissan Canada Inc. Award in Automotive Engineering
 - Office of University Advancement and Alumni Relations Bursary
 - Patrick Tansey Memorial Bursary
 - Peter Glasheen Memorial Bursary
 - Pierre Colas Bursary In Finance
 - Professor James Gilchrist Finnie Bursary
 - Ralph B. Hood Memorial Bursary
 - Richard J. Renaud 60th Birthday Adopt-A-Student Bursary
 - Richard Joly Bursary
 - Robert Harris Pallen Memorial Bursary
 - Robert Strauber Bursary
 - Rondell Roberts Bursary in Finance
 - Roslyn and Harry Pinker Endowment Fund
 - Royal Albert Edinburgh Lodge Bursary
 - Ruth Richer Bursary
 - S.H. McNeilly Bursary
 - Schwartz Levitsky Feldman Bursary
 - Senator John J. Connolly Bursary
 - Shushie Adopt-A-Student Bursary
 - St. Andrew's Society Bursary
 - Tammy Bedford and Garry Byng Memorial Bursary
 - TD Bank Financial Group Bursary
 - Theodore Ronis Memorial Bursary
 - Thomas Family Bursary
 - University Women's Club of Montreal Bursary
-



graduate programs

section 400



400 GRADUATE PROGRAMS

Vice-President, Research and Graduate Studies
LOUISE DANDURAND

Administrative Director
JOANNE BEAUDOIN

Associate Deans
MONICA MULRENNAN
THEODORE STATHOPOULOS

<i>Location</i>	School of Graduate Studies 1455 De Maisonneuve Blvd. West Montreal, Quebec H3G 1M8	The office is located at: 2145 Mackay Street 514-848-2424 ext. 3800
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SCHOOL OF GRADUATE STUDIES

The graduate programs offered by the University are divided into doctoral, master's, diploma and certificate programs. Doctoral programs offer students the opportunity to carry out fundamental and applied research. The results of this research are presented in the form of a thesis containing an original contribution to knowledge. Master's and doctoral theses are defended in public examinations. The length and specific format of a doctoral thesis is discipline dependent. All doctoral programs require the passing of comprehensive examinations and a minimum of 90 credits of study. At the master's level, the University offers a variety of thesis and non-thesis options. All master's programs require a minimum of 45 credits. Some master's programs also have a comprehensive examination.

The academic goals of the graduate diploma programs are somewhat different from those of doctoral and master's programs. They are designed either to offer a further specialization in a field or discipline already studied at the undergraduate level, or they provide the introduction to a new field of study or discipline, with the express intent to develop some level of specialized knowledge. A graduate diploma consists of a minimum of 30 credits and normally a maximum of 33 credits. Diploma programs do not require a thesis, although a graduating essay, project or report may be required. Diploma programs may require a comprehensive examination.

Graduate certificates are designed to use existing departmental graduate resources to serve a professional clientele which is seeking an upgrading and advanced graduate training over a short time frame. The normal academic base for graduate certificates is the graduate courses presently offered by an academic department, configured in a way to serve the needs of the clientele. The focus of the certificate program should be directed to the needs of the professional clientele; it will be specialized in scope rather than being of a general nature.

With the exception of the special individualized doctoral and master's programs, all graduate programs offered by the University are administered by a particular academic department or program in one of the four Faculties of the University. All graduate programs are described in the School of Graduate Studies Calendar. Each description outlines the full-time faculty involved in the program, the objectives of the program, and the research interests of the faculty. Admission requirements, application procedures, degree requirements and program options are specified. In most cases, courses are given in the late afternoon and evening, or in the evening only, making it possible for both full-time and part-time students to attend. Please contact the graduate program director at the number indicated for further information.

Effective June, 1994, students may choose to receive their degrees in either the new gender neutral nomenclature of Baccalaureate, Magisteriate, and Doctorate or the traditional nomenclature of Bachelor, Master, and Doctor.

FACULTY OF ARTS AND SCIENCE

Telephone: 514-848-2424

Applied Human Sciences

MA

Donald W. De Guerre **Ext.**
2270

Biology

PhD, MSc
Diploma

Grant Brown 3401
Luc Varin 3401

Chemistry and Biochemistry

PhD, MSc

Paul Joyce 3356

Communication Studies		
PhD	Chantal Nadeau	2560
MA (Media Studies)	Leslie Shade	2550
Diploma	Rick Hancox	2538
Economics		
PhD, MA, Diploma	Nikolay Gospodinov	3901
Education		
Diploma (Adult Education)	William Knitter	2034
MA (Applied Linguistics)	Walcir Cardoso	2034
Graduate Certificate (TESL)	Walcir Cardoso	2034
MA (Child Study)	Harriet Petrakos	2034
MA (Educational Studies)	William Knitter	2034
PhD, MA (Educational Technology)	Richard F. Schmid	2030
Diploma (Instructional Technology)	Richard F. Schmid	2030
English		
MA (English Literature)	Bina Freiwald	2344
Études françaises		
MA (Littératures francophones)	Françoise Naudillon	7509
MA (Traductologie)	Benôit Léger	7509
Diploma (Traduction)	Philippe Caignon	7509
Graduate Certificate (Écriture)	Françoise Naudillon	7509
Graduate Certificate (Anglais-français en langue et techniques de localisation)	Philippe Caignon	7509
Exercise Science		
MSc (Exercise Science)	Richard Courtemanche	3327
Geography, Planning and Environment		
MSc (Geography, Urban and Environment Studies)	Pascale Biron	2057
Diploma (Environmental Impact Assessment)	Pascale Biron	2057
History		
PhD, MA	Andrew Ivaska	2435
Humanities		
PhD	Andrew Ivaska	2435
Journalism		
Diploma	Peter Downie	5054
Mathematics and Statistics		
PhD, MA, MSc	Galia Dafni	3250
MTM (Master of/Magisteriate in the Teaching of Mathematics)	Joel Hillel	3250
Philosophy		
MA	Pablo Gilabert	2501
Physics		
PhD, MSc	Panagiotis Vasilopoulos	3271
Political Science		
PhD, MPPPA (Public Policy and Public Administration)	Axel Huelsemeyer	2126
Psychology		
PhD	Paul D. Hastings	2205
MA	Andreas Arvanitogiannis	2205
Religion		
PhD	Leslie Orr	2077
MA (History and Philosophy of Religion)	Michael Oppenheim	2077
MA (Judaic Studies)	Ira Robinson	2077

School of Community and Public Affairs Diploma (Community Economic Development)	Marguerite Mendell	2575
Sociology and Anthropology MA (Social and Cultural Anthropology) MA (Sociology)	Homa Hoodfar Homa Hoodfar	2161 2161
Theological Studies MA	Lucian Turcescu	2475
JOHN MOLSON SCHOOL OF BUSINESS		
Chartered Accountancy Diploma Graduate Certificate (Management Accounting)	Wendy Roscoe Trevor Hagyard	2763 2763
Business Administration PhD, MSc	Ulrike de Brentani	4157
MBA (Executive Option) (Investment Management Option) (Professional)	Anne-Marie Croteau Ian Rakita Alan Hochstein	3697 2796 2729
Investment Management MIM (Master in Investment Management) Diploma	Ian Rakita Ian Rakita	2796 2796
FACULTY OF ENGINEERING AND COMPUTER SCIENCE		
Aerospace MEng	Marius Paraschivoiu	8750
Building, Civil and Environmental Engineering PhD, MAsC (Building) MEng, Graduate Certificate (Building) PhD, MAsC (Environmental Engineering) MEng, Graduate Certificate (Environmental Engineering)	Fariborz Haghighat Fariborz Haghighat Fariborz Haghighat Fariborz Haghighat	3205 3205 3205 3205
Electrical and Computer Engineering PhD, MAsC, MEng	Ferhat Khendek	3103
Mechanical and Industrial Engineering PhD MAsC, MEng, Graduate Certificates	Paula Wood-Adams Mamoun Madraj	8750 3131
Computer Science and Software Engineering PhD, MCompSc, MAppCompSc MEng, MAsC (Software Engineering) Diploma	Nematollaah Shiri Nematollaah Shiri Rajagopalan Jayakumar	3043 3043 3042
Concordia Institute for Information Systems Engineering (CIISE) MAsC, MEng (Information Systems Security) MAsC, MEng (Quality Systems Engineering) Graduate Certificate	Amin Hammad Amin Hammad Amin Hammad	5367 5367 5367
FACULTY OF FINE ARTS		
Art Education PhD, MA	Paul Langdon	4639
Art History PhD, MA	Catherine MacKenzie	5392
Creative Arts Therapies MA	Josée Leclerc	4790

Design and Computation Arts Graduate Certificate (Digital Technologies in Design Art Practice)	Joanna Berzowska	4626
Film Studies MA	Mario Falsetto	4335
Music Diploma (Advanced Music Performance)	Christopher Jackson	4706
Studio Arts MFA	François Morelli	4607
SCHOOL OF GRADUATE STUDIES Special Individualized Programs PhD, MA	David Howes	3894



index

section 500



500 INDEX

NOTE: Where the subject matter referred to appears on more than one consecutive page, only the first page number is given.

A

Academic Calendar: 13

Academic Code of Conduct: 66

- Appeals, 71
- Definitions, 66
- Hearing, 70
- Sanctions, 71

Academic Integrity: 66

Academic Misconduct: 67

Academic Regulations:

- Academic Performance Requirements, 61
- Academic Re-evaluation, 56
- Appeals, 57, 58
- Code of Conduct, 66
- Engineering and Computer Science, 437
- Evaluation, Grading, Examinations, and Performance Requirements, 53
- General Information, 46
- Programs and Regulations, 50
- Re-evaluation Decision, 57, 58
- Weighted Grade Point Average, 61

Academic Standing:

- Arts and Science, 151
- John Molson School of Business, 402
- Engineering and Computer Science, 437
- Fine Arts, 505

Academic Year: 26, 46

Acceptable Standing:

- Arts and Science, 151
- John Molson School of Business, 402
- Engineering and Computer Science, 438
- Fine Arts, 505

Accountancy: 407

- Certificate in, 431
- Special Programs in, 431

Administration: 429

- Bachelor of/Baccalaureate in, 401
- Officers of the, 22

Admission: 25

- Academic Documents, 32
- Application Deadline Dates, 30
- Application Fee, 29
- Applying for, 29
- Arts and Science, 145
- Citizenship Documents, 31

Conditional, 32

Confirmation Fee, 32

Documents Required, 31, 32

Engineering and Computer Science, 436

Entry Dates, 30

Extended Credit Program, 28

Fine Arts, 502

Former Concordia Students, 28

from Other Canadian Provinces, 27

from Outside Canada, 28

from Quebec Institutions, 27

Independent Students, 30

International Students, 28, 106

January, 30

John Molson School of Business, 400

Language Proficiency, 29

Mature Students, 30, 34

Permanent Code, 32

Permanent Residency Documents, 31

Pro-Tanto Credits and Exemptions, 28

Proof of Quebec Residency, 31

Quebec Residency, 31

Regulations, 25

Requirements, 27

Selection Process and Notification, 32

Senior Students, 31

Special, 30

Transcript, 32

Transfers from Other Post-Secondary Institutions, 28

Transfers from Other Universities, 28

Visiting Students, 30

Adult Education: 229

Certificate in, 229

Advocacy and Support Services: 93

Alumni: 114

Anthropology: 364

Courses, 365

Appeals: 57, 58

Applied Human Sciences: 154

Arabic (Modern Standard): 180, 184

Archaeology: 180

Art Education: 507

Art History: 511

Arts: Bachelor of/Baccalaureate in, 146

Arts and Science: Faculty of (General), 143
 Academic Performance Regulations, 151
Certificate Program, 293
 Co-operative Education, 172, 211, 248, 304, 320, 375
 Degree Requirements, 148
 Equivalents Index, 610
 Extended Credit Programs, 148
 General Education, 153
 General Studies in, 144
 Honours Programs, 150
 Mature Student Entry, 148
Profiles, 145
 Programs and Admission Requirements, 145
 Registration Regulations, 151

Arts and Science: Faculty of (Departments/Programs),
 Adult Education, 229
 Applied Human Sciences, 154
 Biology, 163
 Canadian Irish Studies, 293
 Chemistry and Biochemistry, 171
 Classics, Modern Languages and Linguistics, 179
 Colleges, Institutes and Schools, 375, 376 380, 383, 390, 393
 Communication Studies, 199
 Computer Science, 375
 Economics, 210
 Education, 218
 English, 232
 English as a Second Language, 229
 Études françaises, 246
 Exercise Science, 262
 French, 246
 Geography, Planning and Environment, 270
 History, 282
 Human Relations, 154
 Individual Studies Program, 292
 Institute for Co-operative Education, 375
 Interdisciplinary Elective Groups, 294
 Interdisciplinary Studies, 292
 Interdisciplinary Studies in Sexuality, 294
 Journalism, 297
 Leisure Sciences, 154
 Liberal Arts College, 376
 Loyola International College, 380
 Mathematics and Statistics, 302
 Philosophy, 313
 Physics, 320
 Political Science, 327
 Psychology, 338
 Religion, 347
 School of Community and Public Affairs, 383
 Science College, 390
 Simone de Beauvoir Institute, 393
 Sociology and Anthropology, 358
 Southern Asia Studies, 348
 Teaching of English as a Second Language, 225
 Theological Studies, 370
 Therapeutic Recreation, 154
 Urban Studies, 279
 Women's Studies, 393
 Youth Work and Family Relations, 155

Athletics: 104
 Awards, Prizes and Scholarships: 629
 Awards: 629
 Arts and Science, 140
 Concordia University, 103
 Engineering and Computer Science, 141
 External Sponsors, 103
 Faculty, 140
 Fine Arts, 141
 Governor General's, 140
 John Molson School of Business, 141
 Special, 141
 University, 140

B

Bachelor of/Baccalaureate in:
 Administration, 401
 Arts, 146
 Commerce, 401
 Computer Science, 483
 Education, 146
 (Teaching English as a Second Language), 225
 Engineering, 440
 Fine Arts, 504
 Science, 146

Biology: 163
 Board of Governors: 20
 Building, Civil and Environmental Engineering: 453
 Building Engineering: 453
 Bursaries: 103
 Entrance, 103, 632
 Explore (Second-Language Summer Program), 100
 In-Course, 103, 635
 Business:
Certificate in, 430
 International, 420
 Studies, 430

Business and Administration: 120

C

Calendar: Academic, 13
 Campus Centre: 92
 Canadian Irish Studies: 293
 Career and Placement Services: 97
 Centre for Continuing Education: 119
 Centre for Native Education: 95
 Ceramics: 554

- Certificate Programs: 52
- Certificates Offered:
 - Accountancy, 431
 - Adult Education, 229
 - Arts and Science, 293
 - Business Studies, 430
 - Canadian Irish Studies, 293
 - Community Service, 155
 - Family Life Education, 155
 - French Language, 247
 - Langue française, 247
 - Pastoral Ministry, 370
 - Special (John Molson School of Business), 431
 - Teaching of English as a Second Language, 225
 - Women's Studies, 394
- Certification: Teachers, 125
- Chaplains: 93
- Cheating: 67
- Chemistry and Biochemistry: 171
- Child Care Services: 92
- Child Studies: 219
- Chinese (Mandarin): 180, 184
- Cinema: 517
- Civil Engineering: 453, 455
- Classes: Cancellation of, 48
- Classics: 179, 182
- Classics, Modern Languages and Linguistics: 179
- Co-operative Education:
 - Institute for, 129
 - Programs, 132
 - Schedules, 135
- Co-operative Programs: 132
 - Accountancy, 407
 - Art History, 512
 - Chemistry and Biochemistry, 172
 - Computation Arts, 534
 - Design, 533
 - Economics (Arts and Science), 211
 - Finance, 417
 - French Translation, 248
 - Management, 422
 - Management Information Systems, 411
 - Marketing, 426
 - Mathematics and Statistics, 304
 - Physics, 320
- Code of Conduct: Academic, 66
- Colleges, Institutes and Schools: 375, 376, 380, 383, 390, 393
- Combination Programs: 51
- Commerce and Administration:
 - (see John Molson School of Business), 399
- Commerce: Bachelor of/Baccalaureate in, 401
- Communication Studies: 199
 - Diploma in, 199
- Communications/Visual Arts: 119
- Community Service: Certificate in, 155
- Computation Arts and Computer Science: 496
- Computation Arts: Design and, 533
- Computer Applications: 485
- Computer Engineering: 444, 447
- Computer Institute: 121
- Computer Science: 483
 - Arts and Science, 375
 - Bachelor of/Baccalaureate in, 483
 - Course Descriptions, 489
 - John Molson School of Business, 410, 431
- Computer Systems: 485
- Concentration: Type of,
 - Certificate, 52
 - Combination, 51
 - Honours, 51, 149
 - Major, 51, 149
 - Minor, 51, 149
 - Requirements, 51
 - Specialization, 51, 149
- Concordia: General, 7
- Concordia Institute for Information Systems Engineering: 499
- Conditional Standing:
 - Arts and Science, 151
 - John Molson School of Business, 403
 - Engineering and Computer Science, 438
 - Fine Arts, 505
- Confirmation Fee: 32
- Contemporary Dance: 529
- Continuing Education: Centre for, 119
 - Business and Administration, 120
 - Communications/Visual Arts, 119
 - Computer Institute, 121
 - General Seminars and Workshops, 124
 - Hospitality Management and Tourism, 124
 - Language Institute (English, French and Spanish), 123
 - Online Learning, 124

Convocation Medals and Prizes: 139

Councils:

- Arts and Science, 20
- John Molson School of Business, 21
- Engineering and Computer Science, 21
- Fine Arts, 22
- Student Life, 22

Counselling and Development Services:

- Career and Placement Services, 97
- Counselling and Psychological Services, 96
- Services for New Students, 96
- Student Learning Services, 97
- Student Success Program Centre, 96
- Student Success Resource Centre, 96

Counselling and Psychological Services: 96

Course Load:

- Arts and Science, 47
- John Molson School of Business, 47
- Engineering and Computer Science, 47, 438
- Fine Arts, 47, 505
- Summer Session, 47

Course Notations:

- Deferred (DEF), 54, 55
- Did Not Enter (DNE), 54
- Did Not Write (DNW), 54
- Discontinued (DISC), 54
- Incomplete (INC), 54
- In Progress (IP), 55
- Medical (MED), 54, 55
- Pending (PEND), 54
- Repeat (REPT), 54

Courses:

- Cancellation of, 48
- Graded DEF, DISC, DNE, DNW, INC, MED, PEND, REPT, 54
- Repetition of, 63
- Withdrawal from, 43, 48

Creative Arts Therapies: 532

Creative Writing: 232

Credit:

- Courses with Statistical Content, 627
- Definition of, 46
- Exemptions, 28
- External, 28
- Pro-Tanto, 28

Curriculum: Regulations, 50

D

Dance: 529

Day Care Services: 92

Decision Sciences and Management Information Systems: 410

Deferred (DEF): Course Notation, 54, 55

Deferred Examinations: 59, 61

Definitions: 66

- Academic Misconduct, 67
- Academic Year, 26
- Certificate Programs, 52
- Cheating, 67
- Combination Programs, 51
- Course Notations, 54
- Credit, 46
- Exemption, 26
- Extended Credit Program Students, 27
- Fall Term, 26
- Falsification, 67
- Full-Time Students, 47
- Honours Programs, 51, 149
- Independent Students, 27, 30
- Major Programs, 51, 149
- Mature Students, 27
- Minor Programs, 51, 149
- Multiple Submission of Projects, 67
- Part-Time Students, 47
- Personation, 67
- Plagiarism, 67
- Pro-Tanto Credits, 27
- Regular Session, 26, 46
- Residence Requirement, 27
- Specialization Programs, 51, 149
- Student Record, 50
- Summer Session, 26, 46
- Transcript, 50
- Undergraduate Students, 27
- Visiting Students, 27, 30
- Winter Term, 26

Degree Regulations: 51

Degree Requirements:

- Arts and Science, 148
- John Molson School of Business, 401
- Computer Science, 484
- Engineering, 441
- Fine Arts, 504

Design and Computation Arts: 533

Did Not Enter (DNE): Course Notation, 54

Did Not Write (DNW): Course Notation, 54

Diploma Programs: 640

Disabled Students:

- Access Centre for Students with Disabilities, 93
- Policy on Accessibility for Students with Disabilities, 94
- Scholarships and Awards, 100

Discontinued (DISC): Course Notation, 54

Doctoral Programs: 640

Drama: 569

E

Early Childhood and Elementary Education: 218

Economics:

Arts and Science, 210
John Molson School of Business, 415

Education: 218

Bachelor of/Baccalaureate in, 146
Bachelor of/Baccalaureate in
(Teaching of English as a Second
Language), 225
Certificate in Adult, 229

Electrical and Computer Engineering: 444

Engineering and Computer Science: Faculty of (General),

Academic Regulations, 437
Admission Requirements, 436
Canadian Council of Professional
Engineers, 441
Co-op Format, 439
Degree Requirements, 441, 484
Equivalents Index, 625
Extended Credit Program, 441, 486
General Education, 441
Grading System, 437
Graduation Regulations, 439
Industrial Experience and Reflective
Learning Courses, 443, 487
Ordre des ingénieurs du Québec, 441
Programs Offered, 436
Registration Regulations, 438
Regulations, 437
Supplemental Examinations, 438
Writing Skills Requirement, 443

Engineering and Computer Science: Faculty of (Departments/Programs),

Building, Civil and Environmental
Engineering, 453
Building, Civil and Environmental
Engineering: Courses, 460
Building Engineering, 453
Building Engineering: Courses, 461
Civil Engineering, 453, 455
Civil Engineering: Courses, 463
Computation Arts and Computer Science, 496
Computer Applications, 485
Computer Engineering, 444, 447
Computer Engineering: Courses, 466
Computer Science, 483
Computer Science and Software
Engineering, 483
Computer Science: Courses, 489
Computer Systems, 485
Concordia Institute for Aerospace Design
and Innovation, 440
Concordia Institute for Aerospace Design
and Innovation: Courses, 474
Concordia Institute for Information Systems
Engineering, 499
Electrical and Computer Engineering, 444
Electrical Engineering: Courses, 469

Engineering and Computer Science:
Courses, 457

Engineering Course Descriptions, 457

Engineering: Courses, 457

Environmental Engineering, 453

General Studies Unit, 498

Industrial Engineering, 449, 452

Industrial Engineering: Courses, 475

Information Systems, 484

Mathematics and Statistics and

Computer Applications, 497

Mechanical and Industrial Engineering, 449

Mechanical Engineering, 449, 450

Mechanical Engineering: Courses, 477

Software Engineering, 487

Software Engineering: Courses, 493

Software Systems, 485

Engineering: Bachelor of/Baccalaureate in, 440

English: 232

Creative Writing, 232

Teaching as a Second Language, 225

English as a Second Language: 229

English Language Proficiency Requirement: 29

Entrance Bursaries: 632

Entrance Scholarships: 631

Environmental Engineering: 453

Equivalents Index:

Arts and Science, 610

John Molson School of Business, 620

Engineering and Computer Science, 625

Fine Arts, 622

Courses with Statistical Content, 627

Études françaises: 246

Certificat en langue française, 247

Evaluation: Academic, 53

Examinations: 53, 58

Applications for Deferred, Replacement and
Supplemental Examinations, 61

Conduct During, 67

Deferred, 59, 61

Final, 58

Replacement, 59, 61

Special Accommodations, 93

Supplemental, 59, 61

(Arts and Science), 150

(Engineering and Computer
Science), 438

Exemption: Definition of, 26

Exercise Science: 262

Extended Credit Program Students:

Definition of, 27

Extended Learning: School of, 117

F

Faculties:

- Arts and Science, 143
- John Molson School of Business, 399
- Engineering and Computer Science, 435
- Fine Arts, 501

Faculty Councils:

- Arts and Science, 20
- John Molson School of Business, 21
- Engineering and Computer Science, 21
- Fine Arts, 22

Faculty:

- Full-Time, 580
- Part-Time, 596
- Research, 595
- Retired, 606

Failed Standing: 54

- Arts and Science, 151
- John Molson School of Business, 403
- Engineering and Computer Science, 438
- Fine Arts, 505

Fall Term: 26

Falsification: 67

Family Life Education: Certificate in, 155

Fees:

- Academic, 37
- Application for Admission, 29

Fibres: 554

Film Studies: 517

Finance: 416

Financial Aid:

- Disabled Students, 100
- Explore (Second-Language Summer Program), 100
- External Sponsors, 103
- Information and Scholarships, 99
- International Students, 103
- Language Assistant Programs, 101
- Part-Time Students, 100
- Scholarships and Bursaries, 103
- Short-Term Advances, 102
- Tuition Deferrals, 102
- Work Study Program, 102

Financial Obligations: 41

Fine Arts: Bachelor of/Baccalaureate in, 504

- Fine Arts: Faculty of (General), 501
 - Academic Performance Requirements, 505
 - Co-operative Education, 512, 533, 534
 - Courses, 506
 - Degree Requirements, 504
 - Equivalents Index, 622
 - Extended Credit Program, 504

- General Education, 504
- Graduation Requirements, 504, 505
- Mature Entry, 504
- Performing Arts, 502
- Programs and Admission Requirements, 502
- Programs Offered, 503
- Transfer Students, 503
- Visual Arts, 502

Fine Arts: Faculty of (Departments/Programs),

- Art Education, 517
- Art History, 511
- Ceramics, 554
- Cinema, 517
- Contemporary Dance, 529
- Creative Arts Therapies, 532
- Design and Computation Arts, 533
- Fibres, 554
- Intermedia/Cyberarts, 555
- Music, 542
- Painting and Drawing, 555
- Photography, 555
- Print Media, 556
- Sculpture, 556
- Studio Art, 553
- Studio Arts, 553
- Theatre, 569

Foreign Students: 106

French Studies: 246

Full-Time Students: Definition of, 47

G

General Education:

- Arts and Science, 153
- John Molson School of Business, 401
- Engineering and Computer Science, 441
- Fine Arts, 504

General Studies Unit: Engineering and Computer Science, 498

Geography, Planning and Environment: 270

German: 180, 185

Governors: Board of, 20

- Grade Point Average: 61
 - Arts and Science, 151
 - John Molson School of Business, 402
 - Engineering and Computer Science, 437

Grading System: 53

Graduate Programs: 639

- Graduation: 50, 149
 - High Academic Achievement, 63
 - University Writing Test, 52

Greek: 179

H

Health Services: 97

Hebrew: 198

History: 282

Honours:
 Definition of, 51, 149
 Programs, 51
 Regulations: Faculty of Arts and
 Science, 150

Hospitality Management and Tourism: 124

Housing: Off-Campus and Residence, 99

Human Relations: 154

I

Immigration Procedures:
 Required Documents, 108

Incomplete (INC): Course Notation, 54

In-Course Bursaries: 635

In-Course Scholarships: 633

Independent Students:
 Academic Regulations re, 46
 Admission of, 30
 Definition of, 27, 30

Individual Studies Program: 292

Industrial Engineering: 449, 452

Information Systems: 484

In Progress (IP) Notations: 55

Institute for Co-operative Education: 129
 Arts and Science, 375

Insurance: International Students, 110

Interdisciplinary Studies:
 Arts and Science, 292
 Canadian Irish Studies, 293
 Elective Groups, 294
 Individual Studies Program, 292
 In Sexuality, 294, 528

Intermedia/Cyberarts: 555

International Business: 420

International Students: 95, 105
 Admission, 28
 Admission Requirements, 106
 Advisor for, 106
 Employment Authorization, 111
 Exemptions from Differential Fees, 109
 Financial Aid, 103
 Health and Accident Insurance, 110

Immigration Information, 108
Required Documents, 108
Tuition and Fees, 109

Inter-University Agreement: 48

Iranian Studies: 348

Italian: 181, 187

J

January Admission: 30

John Molson School of Business (General): 399
 Academic Performance Regulations, 402
 Admission Requirements, 400
 Co-operative Education, 407, 411, 417,
 422, 426
 Equivalents Index, 620
 Extended Credit Program, 400
 General Education, 401
 General Information, 403
 Graduation Requirements, 403
 Mature Entry Program, 400
 Program Options for
 Non-Business Students, 430
 Programs, 400
 Registration Regulations, 403
 Special Certificates, 431
 Special Programs in Accountancy, 431

John Molson School of Business
(Departments/Programs):
 Accountancy, 407
 Administration, 429
 Business Studies, 430
 Computer Science, 431
 Decision Sciences and Management
 Information Systems, 410
 Economics, 415
 Finance, 416
 International Business, 420
 Management, 422
 Marketing, 426

Journalism: 297

L

Language Institute (English, French and
Spanish): 123

Language of Examinations: 53

Language of Instruction: 53

Language Proficiency: 29

Lapsed Program: 48
 Arts and Science, 151
 John Molson School of Business, 403
 Fine Arts, 505

Latin: 179

Learning Services: 97

Legal Information Services: 95

Leisure Sciences: 154

Liberal Arts College: 376

Librarians: 596

Linguistics: 181, 195

Loans and Bursaries:
Federal and Provincial, 101
Quebec, 99
Short-Term Advances, 102

Loyola International College: 380

M

Major: Definition of, 51, 149

Management: 422

Management Information Systems: 410

Maps:
Loyola, 10
Sir George Williams, 11

Marketing: 426

Master's Degree Programs: 640

Mathematics and Statistics: 302

Mathematics and Statistics and
Computer Applications:
(Arts and Science), 303
(Engineering and Computer Science), 497

Mature Entry: 33

Mature Students:
Admission, 34
Arts and Science, 148
Assistance, 36
Definition of, 27, 34
Program Requirements, 34

Mechanical and Industrial Engineering: 449

Mechanical Engineering: 449, 450

Medals: 139

Medical (MED): Course Notation, 54, 55

Mel Hoppenheim School of Cinema: 517

Minor: Definition of, 51, 149

Modern Languages: 179, 198

Multi-Faith Chaplaincy: 93

Multiple Submission of Projects: 67

Music: 542

O

Officers of the Administration: 22

Ombuds Office: 89

Online Learning: 124

P

Painting and Drawing: 555

Part-Time Students:
Definition of, 47
Financial Assistance, 100

Pastoral Ministry: Certificate in, 370

Peer Support Program: 93

Pending (PEND): Course Notation, 54

Performing Arts: 502

Permanent Code: 32

Personation: 67

Philosophy: 313

Photography: 555

Physics: 320

Plagiarism: 67

Playwriting: 569

Policy on Accessibility for Students
with Disabilities: 94

Policy on the Establishment of Tribunal
Hearing Pools: 74

Political Science: 327

Print Media: 556

Prizes: 139, 629

Profiles:
Arts and Science, 145
John Molson School of Business, 400
Engineering and Computer Science, 436

Program Options for
Non-Business Students: 430

Program Profiles:
Arts and Science, 145
John Molson School of Business, 400
Engineering and Computer Science, 436

Programs:
Certificate, 52
Certificate (Arts and Science), 293
Certification, 126
Combinations, 51
Continuing Education, 119

- Co-operative, 132
- Diploma, 640
- Doctoral, 640
- Extended Credit Program Students:
 - Definition of, 27
- Graduate, 639
- Honours, 51, 149
 - (Arts and Science), 150
- Individual Studies, 292
- Major, 51, 149
- Master's, 640
- Mature Students, 34
- Minor, 51, 149
- Specialization, 51, 149

Projects: Multiple Submission of, 67

Pro-Tanto Credits: Definition of, 27

Psychology: 338

Q

Quebec Residency: 31

R

Recreation and Athletics: 104

Re-evaluation: Academic, 56

Registration: 32, 41, 48, 107

Regular Session: 14, 26, 46

Regulations:

- Academic, 45
- Academic Performance, 61
- Admission, 25
- Degree, 51
- Evaluation, Grading, Examinations, 53
- Failure, 54
- Programs and Regulations, 50
- Supplemental Examinations, 56

Religion: 347, 370

Repeat (REPT): Course Notation, 54

Replacement Examinations: 59, 61

Required Documents:

- Immigration Procedures, 108

Requirements:

- Academic Performance, 61
- Admission, 27
- Admission – International Students, 106
- Concentration, 51
- Graduation, 50, 149
- Residence, 27, 47
- University Writing Test, 52

Residence and Housing: 99

Residence Requirements: 47

- Definition of, 27

Rights and Responsibilities: 76

S

Scholarships: 103, 629

- Entrance, 103, 631
- In-Course, 103, 633

School of Community and Public Affairs: 383

School of Extended Learning: 117

Science: Bachelor of/Baccalaureate in, 146

Science College: 390

Sculpture: 556

Second Bachelor's Degree:

- Residence Requirements, 47

Senate: Members of, 20

Senior Students: 31

Services for New Students: 96

Sexuality: Interdisciplinary Studies in, 294, 528

Short-Term Advances: 102

Simone de Beauvoir Institute: 393

Sociology and Anthropology: 358

Software Engineering: 487

Software Systems: 485

Southern Asia Studies: 348

Spanish: 181, 190

Specialization: Definition of, 51, 149

Statistics: 302, 627

Status:

- Full-Time Student, 47
- Independent, 27, 30
- Mature, 27
- Part-Time Student, 47
- Senior Student, 31
- Visiting Student, 27, 30

StepUp: Strategic Transition and Enhanced Preparation for University Programs, 118

Student Advocate Program: 95

Student Associations:

- Alumni, 114
- Concordia Student Union (CSU), 114
- Graduate, 114

Student Exchange Programs (International): 48

Student Learning Services: 97

Student Life and Student Services: 91

- Advocacy and Support Services, 93
- Career and Placement Services, 97
- Centre for Native Education, 95
- Child Care, 92

- Concordia Council on Student Life (CCSL), 92
 - Counselling and Development, 95
 - Financial Aid and Awards Information, 99
 - Health Services, 97
 - International Students Office, 95**
 - Legal Information Services, 95
 - Mission Statement, 92
 - Multi-Faith Chaplaincy, 93
 - Off-Campus Housing, 99
 - Peer Support Program, 93
 - Recreation and Athletics, 104
 - Residence, 99
 - Services for New Students, 96
 - Social and Cultural Activities, 92
 - Student Advocate Program, 95
 - Student Learning Services, 97
 - Student Success Program Centre, 96
 - Student Success Resource Centre, 96
 - Students with Disabilities:
 - Access Centre for, 93
 - Student Life: Council on, 22
 - Student Record: 50
 - Student Request Committees: 49
 - Students: Classification of,**
 - Extended Credit Program, 27
 - Independent, 27, 30
 - Mature, 27, 34
 - Senior, 31
 - Transfer, 28
 - Undergraduate, 27
 - Visiting, 27, 30
 - Student Transition Centre: 118
 - Studio Arts: 553
 - Summer Session: 14, 26, 46
 - Supplemental Examinations: 56, 59, 61, 150, 438
- T**
- Teacher Certification:**
 - Assistance, 127
 - Citizenship Requirements, 126
 - Teachers: Certification Programs, 126
 - Teacher Training and Teacher Certification: 125
 - Teaching of:
 - English as a Second Language, 225
 - Certificate in, 225
 - Theatre: 569
 - Theological Studies: 370
 - Certificate in Pastoral Ministry, 370
 - Religion, 347
 - Therapeutic Recreation: 154
 - Traduction: 248
 - Courses, 258
 - Training: Teachers, 125
 - Transcripts: 32, 50
 - Transfer Credits: 28, 48
 - Transfers:
 - from Other Post-Secondary Institutions, 28
 - from Other Universities, 28
 - Transition Centre: Student, 118
 - Translation: 248
 - Courses, 258
 - Tribunal Hearing Pools: Policy on the Establishment of, 74
 - Tuition:
 - Deferrals, 102
 - International Students, 109
 - Refunds, 43
 - Tuition and Fees: 37
- U**
- Undergraduate Students:
 - Association, 114
 - Definition of, 27
 - University Writing Test: 52
 - Urban Studies: 279
- V**
- Visiting Students:
 - Academic Regulations re, 46
 - Admission of, 30
 - Definition of, 27
 - Visual Arts: 502
- W**
- Weighted Grade Point Average: 61
 - Arts and Science, 151
 - John Molson School of Business, 402
 - Engineering and Computer Science, 437
 - Western Society and Culture: 377
 - Winter Term: 26
 - Withdrawal from Courses or University: 43, 48
 - Women's Studies: 393
 - Certificate in, 394
 - Work Study Program: 102
 - Writing: Creative, 232
 - Writing Skills Requirement: 52
- Y**
- Youth Work and Family Relations: 155

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Communication of Information to Provincial *Ministère de l'Éducation, du Loisir et du Sport*

Under the terms of an agreement between Concordia University and the provincial *Ministère de l'Éducation, du Loisir et du Sport*, approved by the Quebec Access to Information Commission, Concordia University is required to transmit to the Ministry some or all of the following information concerning its students: the student's permanent code, complete name, date of birth, gender, father's complete name, mother's complete name and place of birth. This information is being transmitted, at the Ministry's request, in order to provide the Ministry with the tools to properly calculate funding for Concordia University, for planning purposes and to ensure the proper management of public funds.

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Concordia University



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